



|| Tamaso ma Jyotirgamaya ||
Shri Someshwar Shikshan Prasarak Mandal's

Phone (02112) 282728 283187

SOMESHWAR SCIENCE COLLEGE

Someshwarnagar, Tel. Baramati, Dist: Pune (Pin : 412 306) Maharashtra, India
(Affiliated to Savitribai Phule Pune University, Pune)

Estd : 2007

Govt. Rag. No. N.G.C. 2007(189/07) Mashi-3, Dt. 2 July 2007 College Code 827 University Appvl. No. IDNo. PU/PN/S/284/2007

Ref.No: SVM/

Date:-

Criterion No.1

Curricular Aspects

(Last Academic Year 2021-22)

1.3.2 Percentage Of Students Undertaking Project Work/Field

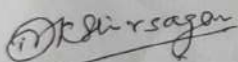
Work/Internship (Data For The Latest Completed Year)


Principal
Someshwar Science College, Someshwarnagar

Notice

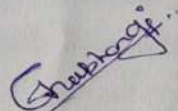
All the students of T.Y.B.SC (Microbiology) are hereby informed that there is a visit arranged on 25.5.2022 Wednesday, at Padegaon Research Centre, Padegaon at 11.00 a.m. The visit is compulsory since the visit report submission needed for practical final examination for the practical course MB II (Syllabus CBCS Pattern 2019).

All students will have to present at the college campus at 9.30 a.m. sharply with apron, Water bottle and Tiffin.



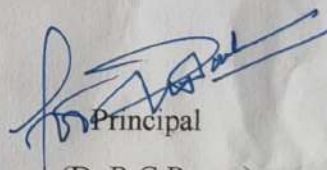
Practical Course II Incharge

(Asst.Prof.Mrs.Bhandwalkar M.S.)



HOD

Microbiology Department
Department of Microbiology



Principal

(Dr.R.G.Pawar)
Principal

Someshwar Science College, Someshwarnagar



Semester VI**Practical Course – II****DSEC-MB 368: Metabolism and Molecular Biology****[2 Credits: 78 Lectures]****[1 credit=15hrs x 130 mins = 1950 mins/50 mins=39 lectures]**

78 L distributed as 60 L for performing practicals and 18 L for internal evaluation

12 Practical x 5 lectures = 60 Lectures

Sr. No.	Practicals	No. of Practical
1.	Clinical Biochemistry - Estimations of i. Blood sugar ii. Blood urea iii. Serum cholesterol iv. Serum proteins and albumin	3
2.	Enzyme production, purification, quantification and Immobilization: i. Lab scale production of amylase using isolates ii. Precipitation of amylase from fermentation broth (salt/solvent) iii. determination of specific activity of crude and purified amylase iv. Immobilization of Amylase using calcium alginate	4
3.	Enrichment, Isolation and Enumeration of Bacteriophages (Principle, Methodology and Calculations of phage titer in PFU/ml)	2
4.	Isolation of Plasmid DNA and Agarose Gel Electrophoresis (Demonstration/hands on as per infrastructure availability)	1
5.	Study of Mitotic cell division from onion root tips	1
6.	Visit to a Biotechnology/ Biochemistry institute	1

References: MB 368 Metabolism and Molecular Biology

1. Ausubel F. M., Brent R., Kingston R. E., Moore D. D., Seidman J.G., Smith J. A. and Struhl K. (Editors.). (2003). Current Protocols in Molecular Biology. Copyright © John Wiley and Sons, Inc. ISBN: 047150338X
2. Bhatta P. and Sakya S. R. (2008). Study of mitotic activity and chromosomal behaviour in root meristem of *Allium cepa* L. treated with magnesium sulphate. Ecoprint. 15: 83-88. ISSN 1024-8668. Ecological Society (ECOS), Nepal. www.ecosnepal.com.
3. Birnboim H. C. and Doly J. (1979). A rapid alkaline extraction procedure for screening of recombinant plasmid DNA. Nucleic acid Research. 7(6):1513-1523.





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Shri Someshwar Shikshan Prasarak Mandal's

SOMESHWAR VIDNYAN MAHAVIDYALAYA

Someshwarnagar, Tal: Baramati, Dist: Pune Pin - 412 306 , Maharashtra, India

(Affiliated to Savitribai Phule Pune University, Pune)

Estd. : 2007

Govt. Reg. No. N.C.G.2007(189/07) Mashi-3, Dt. 2 July 2007 College Code - 827 University Appvl. No. IDNo. PU/PN/S/284/2007

Ref. No. S.V.M. / 3068 / 2021-22

Date : 25/05/2022

To,
The Director,
The Central Sugarcane Research Station,
Padegaon,
Tal. Phaltan, Dist. Satara,

Subject: Requesting to permit the visit of T.Y.B.Sc Microbiology students of 'Someshwar Science College, Someshwarnagar' to the research Centre

Respected Sir/Madam,

With reference to the above subject, Microbiology Department of Someshwar Science College, Someshwarnagar, has to arrange T.Y.B.Sc Microbiology students visit to the research Centre, as per Practical course syllabus.

We are expecting to know the day to day practical work and research activities carried in the Centre. We will be very grateful to you if you are ready to cooperate and guide us by giving your valuable time and permission to visit the Centre.

Total no. of Students will be around 15 along with faculty 4.

Thanking you.

B.K. Bhandwalkar
Practical Course II Incharge
Asst. Prof. Mrs. Bhandwalkar M.S.)

Shubhangi Kambale
HOD 25/05/22
Microbiology Department
(Asst. Prof. Shubhangi Kambale)

R.A. Kulkarni
25/05/22
Principal
Someshwar Science College, Someshwarnagar

Received & allowed to visit the research station

A.D. Patil
Officer Incharge
District Extension Center, Satara
C.S.R.S. Padegaon



Shri Someshwar Shikshan Prasarak Mandal's

Someshwar Science College, Someshwarnagar

Date: 25-05-2022

Attendance of T.Y.B.Sc (Microbiology)

Visit to The Central Sugarcane Research Station, Padegaon, Tal. Phaltan, Dist. Satara,

Sr.No.	Roll No.	Name of the student	Out(Signature)	In(Signature)
1.	3074	Hulge Rakhi Satish	Hulge	Hulge
2.	3022	Holkar Sayali Sharad	Holkar	Holkar
3.	3021	Bhosale Nikita D.	Bhosale	Bhosale
4.	3005	Raut Shivani Rohidas.	Raut	Raut
5.	3011	Sonawane Samsuddhi J.	Sonawane	Sonawane
6.	3013	Magar Nayan Sharad	Magar	Magar
7.	3038	Jedhe Sakshi Jaywant	Jedhe	Jedhe
8.	3075	Jagtap Vaibhavi Santosh	Jagtap	Jagtap
9.	3018	Jagtap Poojita Jitendra	P.J.Jagtap	P.J.Jagtap
10.	3023	Lakade Rutuja Dattatray	Lakade	Lakade
11.	3016	Darekar priti sunil	Darekar	Darekar
12.	3010	Darekar Sayali Sandip	Darekar	Darekar
13.	3068	Dhumal Vaishnavi D.	Dhumal	Dhumal
14.	3002	Karade Ashwini Dada	Karade	Karade
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				

A. K. Sagar

Practical Course II
Incharge

Shubhangi

H.O.D
Department of Microbiology

Principal

Someshwar Science College, Someshwar

(Asst. Prof. Chandrakant R. S.)



**T.Y.B.Sc (Microbiology) students visit at
Central Sugarcane Research Station, Padegaon**

T.Y.B.Sc (Microbiology) students' visit along with 4 staff members was organized by Department of Microbiology, of Someshwar Vidnyan Mahavidyalaya, Someshwarnagar on 25th May 2022 at 11.0 a.m.

First students were taken into seminar hall to give Research Centre information and organizational structure and all about research done at All India Coordinated Research On Sugarcane (AICRP). Dr. Dipak Dimse (Molecular Biology) and Dr. Thorwe (Plant Pathology) gave the information regarding varieties like Co 86032, CoM 0265 breded at this station along with the following information.

The dominant ruling variety Co 86032 (Nira) was released during 1996, for cultivation in suru, preseason and adsali seasons. It is widely adapted in Maharashtra due to its good characters viz. high cane and CCS yield, sparse flowering, better ratoonability, resistant to smut, drought and salinity tolerant.

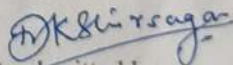
Salient features of Phule 265:

- About 19.45 % higher cane and 18.74% higher CCS yield than Co 86032.
- Tolerant to drought and salinity.
- Better ratoonability.
- Excellent tillering ability.
- Resistant to smut, red rot, wilt, foliar diseases and moderately resistant to pests especially the woolly aphids.

Pathology

- The smut resistant genotypes, CoM 7601 and MS 7604 developed by this centre has been registered in NBPGR, New Delhi with registration numbers INGR16008 and INGR16009 respectively.

The visit was informative and ended by giving vote of thanks by one of the students.


Report submitted by

Mrs. Bhandwalkar M.S.

Field Visit Of T.Y.BSc Micro-Biology 2022




Principal
Someswar Science College, Someswar nagar



Principals
Principal
Someswar Science College, Someswarwamagar






Principal
Someswar Science College, Someswar nagar




Principal
Someshwar Science College, Someshwar nagar



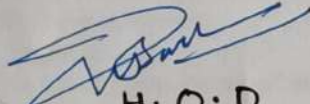

Principal
Someswar Science College, Someswar nagar


Notice

All the students of B. Sc. & B. Sc.Comp.sci. Are hereby informed that there is a visit arranged on 20.5.2022, friday, at Shri someshwar sahakari sakhar karkhana Ltd.,Someshwarnagarat 12.30 am. The Visit is compulsory since the visit report submission needed for practical final examination for the Practical course (Syllabus CBCS Pattern 2019).

All students will have to present at the college campus at 9.30 am sharply with apron, Water bottle and Tiffin.




H.O.D


Principal
Someshwar Science College, Someshwarnagar

SEMESTER II**Paper III****ELC-123: Electronics Lab IB**

The practical course consists of **10 experiments** out of which one will be activity equivalent to 2 practical sessions.

Activity will carry 15% marks at internal and external semester examination. Activity can be any one of the following :

1. Hobby projects
2. Industrial visit / live work experience
3. PCB Making
4. Market Survey of Electronic Systems
5. Circuit Simulations and CAD tools

GROUP A (Minimum 4/8)

1. To study temperature sensor LM 35
2. Use of LDR to control light intensity
3. Study of PIR and tilt sensor.
4. Study of stepper motor.
5. Use of OPAMP as comparator and its use in DC motor driving.
6. Build and test Inverting and non inverting amplifier using OPAMP.
7. Build and test adder and subtractor circuits using OPAMP.
8. Build and test voltage to frequency converter

GROUP B (Minimum 4/8)

1. Study of RS, JK and D flip flops using NAND gates
2. Study of Four bit ALU
3. Study of asynchronous Up/Down Counter
4. Study of decade counter IC circuit configurations
5. Study of 4-bit SISO Shift register and it's use as Ring Counter
6. Study of read and write action of RAM (using IC 2112/4 or equivalent).
7. Study of Diode Matrix ROM
8. Study of Computer hardware system




Principal
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SEMESTER II**Paper III****ELC-123: Electronics Lab IB**

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5. Use of OPAMP as comparator and its use in DC motor driving.
6. Build and test Inverting and non inverting amplifier using OPAMP.
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8. Build and test voltage to frequency converter

GROUP B (Minimum 4/8)

1. Study of RS, JK and D flip flops using NAND gates
2. Study of Four bit ALU
3. Study of asynchronous Up/Down Counter
4. Study of decade counter IC circuit configurations
5. Study of 4-bit SISO Shift register and its use as Ring Counter
6. Study of read and write action of RAM (using IC 2112/4 or equivalent).
7. Study of Diode Matrix ROM
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SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE
CBCS(2020 PATTERN)
S.Y.B.Sc. (Electronic Science)
EL-243: Paper- III: Practical Course: SEMESTER IV

Course outcomes:

This course provides hands on experience in communication and digital circuits, which can be conducted by standard circuits. Investigate the operation of several communication circuits and digital circuits (Combinational and sequential). Upon completion of this course student will be able to

CO1	Describe and explain the design procedure of different types of active filters and analyze its frequency response
CO2	Demonstrate positive feedback for oscillator circuits using standard ICs
CO3	Describe and explain design procedure for two stage amplifiers and application circuits
CO4	Design practical circuits for identified applications
CO5	Develop working setup and write programs using programming techniques of arduino
CO6	Demonstrate and explain interfacing hardware to arduino microcontroller
CO7	Solve problems using programming techniques of python

Total Expts: 10

Group A: List of Practicals (Analog Circuit Design): Any Five

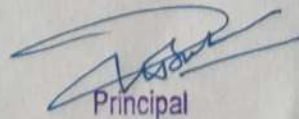
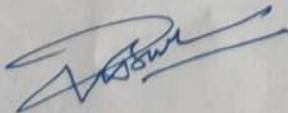
1. Design, build and test butterworth first order Low Pass Filter and High Pass Filter using OPAMP IC-741
2. Design, build and test Wein bridge oscillator/Phase shift oscillator
3. Design, build and test Push pull amplifier
4. Design, build and test Astable multivibrator using opamp
5. Design, build and test of two stage amplifier using transistor
6. Design, build and test audio amplifier
7. Liquid level detector
8. Mini project/industrial visit/PLE

Group B: List of Practicals (Arudino and python programming): Any Five
arduino programming practicals:

1. To study and understand Interfacing LED array to arduino
2. To study and understand Interfacing keyboard to arduino
3. To study and understand Interfacing sensor to arduino
4. To study and understand interfacing bluetooth to arduino

Python programming practicals:

5. Enter the number from the user and depending on whether the number is even or odd, print out an appropriate message to the user.
 6. Write a program to generate the Fibonacci series.
 7. Write a function that reverses the user defined value
 8. Write a recursive function to print the factorial for a given number
-



Principal
Someshwar Science College, Someshwarnagar
14

Shri Someshwer Shikshan Prasarak Mandals

Someshwar Science College, Someshwarnagar

Department Of Electronic Science(Industrial Visit 2021 - 22)

Class : S.Y. B. Sc.

Date : 20 - 05 - 2022

Sr.No	Roll.No	Student	Mobile No.	Signature	
				IN	Out
1	2034	SASTE SHIVAM RAMESH	9373866023	P	P
2	2037	JAGTAP VISHIVJEET YUVRAJ	7841867009	P	P
3	2047	KHARAT RUTUJA SATISH	8421642207	P	P
4	2058	PAWAR HARSHAL MACHHINDRA	9049071849	P	P
5	2060	SURVE AAKASH SANDIP	9136592603	P	P

Rupali
Incharge

[Signature]
H. O. D.

[Signature]
Principal
Someshwar Science College, Someshwarnagar.



Someshwar Science College , Someshwarnagar**Department Of Electronic Science (Industrial Visit 2021 - 22)**

Class : F.Y. B. Sc. Comp. Sci.

Date : 20 - 05 - 2022

Sr.No	Roll.No	Name Of The Student	Mobile No.	Signature	
				In	Out
1	6001	PAWAR SIDDHANT BHARAT	8888038271	P	P
2	6002	ADSUL SANKET DNYANESHWAR	9529153245	P	P
3	6003	DHURVE AKANKSHA TATYASO	7498554577	P	P
4	6004	BHOSALE KSHITIJA DHANANJAY	8767453323	P	P
5	6005	SHENDKAR NIKITA NAVNATH	9579384534	P	P
6	6006	KALE PRATHAMESH GANESH	9960627200	P	P
7	6007	THOPATE GAURI ANIL	9322753684	P	P
8	6008	GADEKAR HARSHJEET MANOHAR	9307055400	P	P
9	6009	PAWAR PRAJAKTA RAMESH	7741054667	P	P
10	6010	KADAM RUTUJA CHANDRAKANTA	9766763434	P	P
11	6011	BAGAL SHUBHAM MAHENDRA	9823568647	P	P
12	6012	THORAT SANJANA HANUMANT	9665023974	P	P
13	6013	KARANDE ANIKET SOMNATH	8208800543	P	P
14	6014	GAIKWAD GAYATRI PARAMESHWAR	9623146413	P	P
15	6015	PISE RUSHIKESH PRAKASH	8767236811	P	P
16	6016	CHAVAN NIKITA DILIP	9359318031	P	P
17	6017	ANKUSHRAO DATTA DILIP	9689229989	P	P
18	6018	MADANE POONAM DHANANJAY	8329352587	P	P
19	6019	JAGTAP PRIYANKA DATTRAY	9356820532	P	P
20	6020	PALANGE ANUJA SURESH	7385484692	P	P
21	6021	JEDHE NIKHIL MANSING	9309982133	P	P
22	6022	JADHAV PRAJWAL TANAJI	9307935553	P	P

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Incharge

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H. O. D.



[Signature]
Principal
Someshwar Science College, Someshwarnagar

Someshwar Science College , Someshwarnagar

Department Of Electronic Science(Industrial Visit 2021 - 22)

Class : S.Y. B. Sc. Comp. Sci.

Date : 20 - 05 - 2022

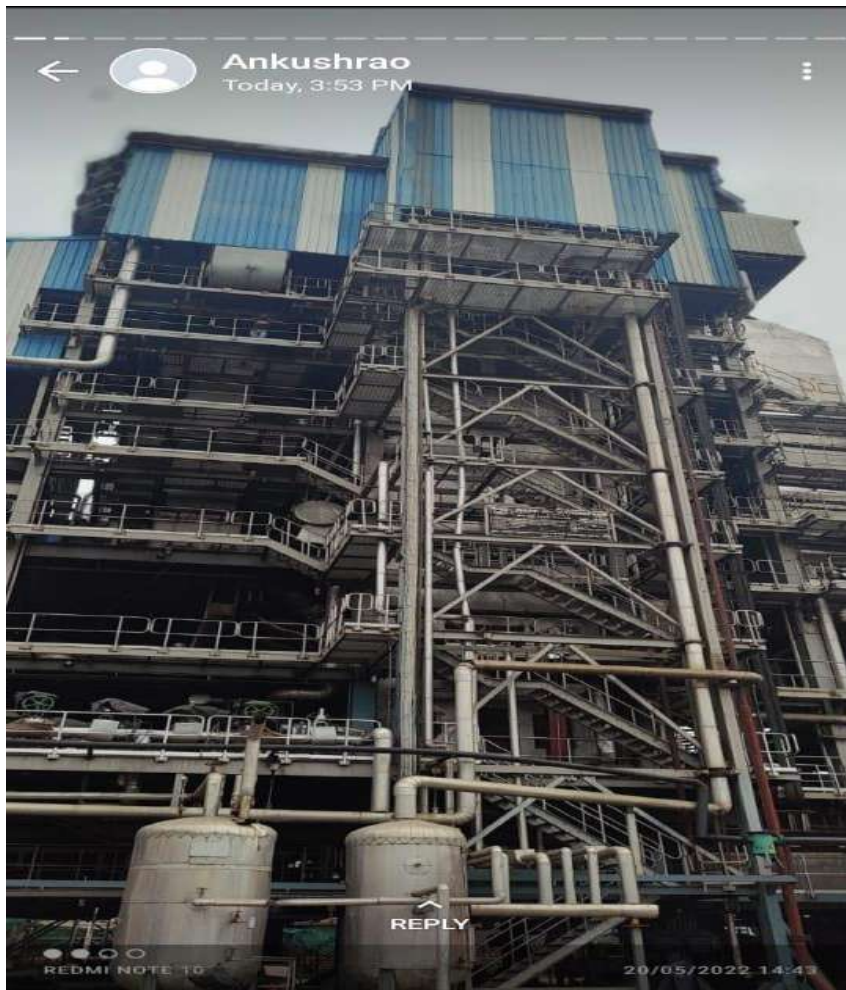
Sr.No	Roll. No	Student	Mobile No.	Signature	
				In	Out
1	7001	ADSUL ARPITA GANESH	8308610413	P	P
2	7002	PINGALE VAIBHAV ASHOK	8208709988	P	P
3	7003	JAGTAP MANASI RAJENDRAKUMAR	9527158899	P	P
4	7004	PHADATARE ASAWARI ASHOK	7248949085	P	P
5	7005	MANDKE ATHARV PRADIP	7410700306	P	P
6	7006	KOLATE NEHA DATTATRAYA	9665150495	P	P
7	7007	SHINDE ABHISHEK ANKUSH	9545681595	P	P
8	7008	SAHIL BHAIRU PADALKAR	9175909484	P	P
9	7009	GHADGE PRAGATI BHIMRAO	9511949440	P	P
10	7010	GADHAVE SAKSHI ANIL	9604352785	P	P
11	7011	JADHAV RIYA TANAJI	8605832727	P	P
12	7012	KUMBHAR KALYANI BHARAT	9923019740	P	P
13	7013	SALUNKHE DIPTI JAYAVANT	9665390085	P	P
14	7014	KONDE YOGINI RAVINDRA	9579488567	P	P
15	7015	KHENGARE TEJAS HARISHCHANDRA	9284785606	P	P
16	7016	BHOJ KAVERI GANESH	8275466220	P	P
17	7017	SURYAWANSHI PRATIKSHA GOVIND	9579405972	P	P
18	7018	SHAIKH SAHIL MAHAMMAD	7719002154	P	P
19	7019	KHALATE ATISH SANTOSH	9822044978	P	P
20	7020	WABALE OMKAR MAHESH	8208005382	P	P
21	7021	DHANGEKAR SHUBHAM SURESH	7262987890	P	P
22	7022	SAWANT SHRUNGALI SOMNATH	8308022805	P	P
23	7023	VIR ABHIMANYU HRIDAYANATH	7420991007	P	P
24	7024	CHAVAN ROHAN RAJU	9356431517	P	P
25	7025	JAGTAP SAKSHI SANJAYRAO	9421008231	P	P
26	7026	ADAGALE DNYANDEEP SHANKAR	9021093656	P	P
27	7027	MANE PRIYANKA RAJESH	9326607741	P	P
28	7028	PAWAR GAYATRI JALINDAR	9767315939	P	P
29	7029	PATOLE AMOL SHIVAJI	7620707805	P	P
30	7030	DURGUDE SAGAR RAJKUMAR	9168273900	P	P
31	7031	PILANE PRADNYA PANDURANG	7820843662	P	P

Rupali
Incharge

[Signature]
H. O. D
Someshwar Science College
COLLEGE CODE 827

[Signature]
Principal
Someshwar Science College, Someshwarnagar.

Department Of Electronics Science (Industrial Visit 2022)

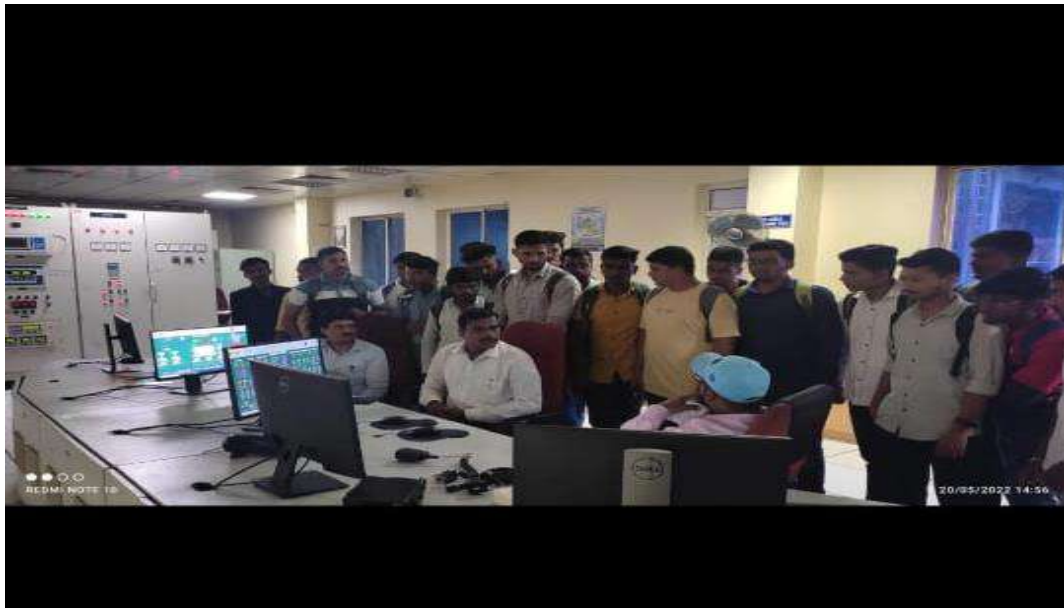



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Someshwar Science College, Someshwarnagar






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S. S. Shri.
Principal
Someshwar Science College, Someshwaramagar



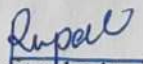


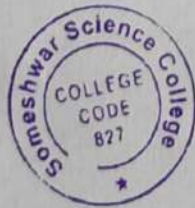

Principal
Someswar Science College, Someswar Nagar

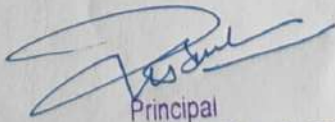
**B.Sc. & B.Sc.Comp.Sci. students visit at
Shri someshwar sahakari sakhar karkhana Ltd.,Someshwarnagar**

Someshwar Vidnyan Mahavidyalaya, Someshwarnagar had organized an industrial visit to power generation plant on 20th May 2022 at 01.00 p.m. The visit was organized by HOD of Electronics Prof.Bansode D.V.,Asst Prof. Pandit R.A. & Asst Prof. Chavan M.B.were the co-ordinators Faculty for the industrial visit. We started travelling from the college campus at 12:30 am via our college bus. Totally 57 students along with 2 co-ordinators faculty were there in the journey. The visit is very helpful to us, got ideas about how power generated.

Visit was arranged at Someshwar sugar factory co-generation plant. I am thankful to Mr.Rajendra Yadav. (Managing Director, Shri Someshwar Sahakari Sakhar Karkhana, Someshwaragar) for permitting us for that visit. Also thankful to Mr. S. N. Tengale (Chief Engg.), Mr. A. G. Chavan (Asst. Engg. Instru.), Mr. Balasaheb Jagtap (WTP Chemist) and all concerned staff of co- generation plant for giving information and valuable co-operation.


Report submitted by
Miss.R.A.Pandit




Principal
Someshwar Science College, Someshwarnagar

Savitribai Phule Pune University
T.Y.B.Sc. (Computer Science) - Sem - VI
Course Type: SECC - IV Course Code: CS - 3611
Course Title : Project

Teaching Scheme 03 Lect/week/Batch Batch Size : 20	No. of Credits 2	Examination Scheme IE : 15 marks UE: 35 marks
----------------------------------------------------------	---------------------	-----------------------------------------------------

Project Guidelines:

- Students should work in a team of minimum 3 and maximum 4 students.
- Students can choose a project topic and implement the same using any language/technology covered in the curriculum so far. The operating environment must be linux.
- The student group will work independently throughout the project work including: problem identification, information searching, literature study, design and analysis, implementation, testing, and the final reporting.
- Project guide must conduct project presentations (minimum 2) to monitor the progress of the project groups.
- At the end of the project, the group should prepare a report which should conform to international academic standards. The report should follow the style in academic journals and books, with clear elements such as: abstract, background, aim, design and implementation, testing, conclusion and full references, Tables and figures should be numbered and referenced to in the report.
- The final project presentation with demonstration (UE) will be evaluated by the project guide (appointed by the college) and one external examiner (appointed by the University).

Recommended Documentation contents:

Abstract

Introduction

- motivation
- problem statement
- purpose/objective and goals
- literature survey
- project scope and limitations

System analysis

- Existing systems
- scope and limitations of existing systems
- project perspective, features
- stakeholders
- Requirement analysis - Functional requirements, performance requirements, security requirements etc.

System Design

- Design constraints
- System Model: Using OOSE
- Data Model
- User interfaces

Implementation details



- Software/hardware specifications

Outputs and Reports Testing

- Test Plan, Black Box Testing or Data Validation Test Cases, White Box Testing or Functional Validation Test cases and results

Conclusion and Recommendations

Future Scope

Bibliography and References

Project Related Assignments

Guidelines:

- The project assignments are a compulsory part of the project course and should be carried out by each project group.
- Project assignments are to be given by the guide for continuous internal evaluation.
- The project assignments are to be allotted to each group separately by the project guide on the basis of the implementation technology. A suggested list of assignments is given below.
 1. Project Time management: plan (schedule table), Gantt chart, Roles and responsibilities, data collection, Implementation
 2. Simple assignments to evaluate choice of technology
 3. Assignments on UI elements in chosen technology
 4. Assignments on User interfaces in the project
 5. Assignments on event handling in chosen technology
 6. Assignments on Data handling in chosen technology
 7. Online and offline connectivity
 8. Report generation
 9. Deployment considerations
 10. Test cases
- Each student within the group must work actively and contribute to the assignments, project work and report writing.

Evaluation guidelines:

IA (15 marks)			UE (35 marks)		
First presentation	Second presentation	Assignments	Project Logic/ Presentation	Assignments and Project Documentation	Viva
05	05	05	20	10	05



Shri Someshwar Shikshan Prasarak Mandal's
SOMESHWAR SCIENCE COLLEGE SOMESHWARNAGAR
DEPARTMENT OF COMPUTER SCIENCES
TYBSC (Computer Science) A.Y 2021-22

PROJECT DETAILS

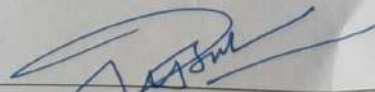
Sr No	Roll No	Student Name	Project Name
1	8019	Akshada Dipak Kakade	Cyber café Management System
	8017	Rutuja Jitendra kharade	
2	8003	Sahil vijay Shinde	Airline Management System
	8004	Abhishek Bhosale	
3	8001	Gadadare Aniket	Hotal room Boking Management System
4	8002	Khomane Monika Ganapat	Tours and Travels Management System
	8010	Navase Triveni Ramdas	
5	8023	Vrushali Jayawant thopte	ATM Management System
	8024	Sayli Nandkumar Gaikwad	
6	8022	Dhanashree Nandkumar Adsul	Online Student Pesult Management System
	8021	Prachi Ananda Adsul	
7	8011	Tejas Nandkumar Shitole	Gym management System
	8009	Mangesh Arjun PAwar	
8	8025	Nikhil garde	Online Library Management System
	8006	Omkar Dighe	
9	8006	Sahil Holkar	Inventory Management System
	8005	Rohit Chavan	
10	4026	Neha Sharad Chaudhari	Online Pharmacy Management System

For Jaytaps

Head,

Department of Computer Science




Principal

Someshwar Science College, Someshwarnagar

**Shri Someshwar Shikshan Prasarak Mandal's
Shomeshwar Vidnyan Mahavidyalaya Someshwarnagar**

Tal: Baramati Dist: Pune

Synopsis

For academic year:-2021-2022

Class :-T.Y.BSC(Computer Science)

**Project Name:-“ELECTRONIC SHOP
BILLING SYSTEM”**

Represented by:-

Miss.Agam Akshata Sanjay

Miss.Pawar Pratiksha Bhanudas

for Jaytapres
Head,
Department of Computer Science



INTRODUCTION

Electronic shop management system is developed specifically to ease the needs of the department of sales and purchase. This system will reduce the manual operation required to maintain all the records of sales and purchase. This system allows to search number of stocks details of electronic items with appropriate company .This application shall also have some features like profit loss reports displaying in the same window it will having user friendly GUI that will guide the user to easily achieve the same .In addition to this the application also supports feature to generate different kinds of reports . The application is to be fully developed using Visual Basic.Net.Hence its main intension to computerize the electronic shop

Head,
Department of Computer Science



SCOPE OF SYSTEM:

- Reduce manual work
- Save accurate information
- Entries are store in disk or any portable disk
- Number of queries are used
- More responsible
- Easy to handle



Proposed system

The conventional system of electricity billing is not so effective once staff has to visit each customer house to note the meter reading to collect the data the another staff has compute the consumed units and calculate the money to be paid again the bill prepare are to be delivered to customer finally individual customer has to go electricity office to pay their dues.

Hence, the conventional electricity billing system uneconomical require many staff to do simple job and lengthy process overall in order to solve the lengthy process web based computerized system initial the purpose electricity billing system project overcomes all this drawback with the features aforementioned it is beneficial to the both and company provide electricity .



EXISTING SYSTEM

When we analysis the manage about this firm then we phase that they working with manual. And we all known that the manual system has many disadvantage .

some are mention below.....

- The manual system require more time processing
- It require more critical work
- The manual system is more error prone
- Difficult to maintain
- Manual system is costly
- Immediate response to the queries is difficult and time consuming
- More than power is needed
- Manual system show the particular place



FEATURES OF SYSTEM

To make billing system more services oriented and simple the following features have been implemented in this project

- The application has have speed of performance with accuracy and efficiency
- The software provide facility of data sharing
- It does not require any staffs as in convention system once it is install on the system only the meter reading are to be given by the customer
- The electricity billing software calculates the units consumed by the customer and makes bills
- It has provision of security restriction
- It require small storage for installation and functioning
- There is provision by debugging if any problem in encountered in the system



HARDWARE AND SOFTWARE REQUIREMENTS

Hardware requirement:

Processor=pentium-1and above

Monitor=monochrome or color

Memory=32MB RAM

Printer= any type of printer(inkjet printer)

Software requirement:

Operating system=windows10

Front end =java(JDK1.8.0_211)

Back end =MYSQL

for *Jaytapra*

Head,

Department of Computer Science

Anand Shrivastava

Principal

Someshwar Science College, Someshwarnagar





|| Tamaso ma Jyotirgamaya ||
Shri Someshwar Shikshan Prasarak Mandal's

Phone (02112) 282728 283187

SOMESHWAR SCIENCE COLLEGE

Someshwarnagar, Tel. Baramati, Dist: Pune (Pin : 412 306) Maharashtra, India
(Affiliated to Savitribai Phule Pune University, Pune)

Estd : 2007

Govt. Rag. No. N.G.C. 2007(189/07) Mashi-3, Dt. 2 July 2007 College Code 827 University Appvl. No. IDNo. PU/PN/S/284/2007

Ref.No: SVM/

Date:-

SAMPLE PROJECT 2021-22

Class-T.Y.BSc (Computer Science)


Principal
Someshwar Science College, Someshwarnagar

Shri Someshwar Shikshan Prasarak Mandal's



Someshwar Science College, Someshwarnagar

PROJECT REPORT ON
“CYBER CAFE MANAGEMENT SYSTEM”

Submitted to
Savitribai Phule Pune University

In the partial fulfillment of degree of Bachelor of Computer Science

For academic year: 2021-2022

Miss. Rutuja Jitendra Kharade (8017)

Miss. Akshata Dipak Kakade (8019)

Under the Guidance

Miss. Reshma Jagtap



Someshwar Science College, Someshwarnagar

Baramati, Pune - 412306

Department of Computer Science

CERTIFICATE

This is to certify that the project entitled "CYBER CAFE MANAGEMENT SYSTEM" submitted by Miss. Rutuja Jitendra Kharade(8017) and Miss. Akshata Dipak Kakade(8019). In partial fulfillment of the requirement of the award of degree T.Y. BSc(Comp Sci) to Savitribai Phule Pune University, Pune has been carried out by them under my guidance satisfactory during the academic year 2021-2022.

Place: Someshwarnagar

Date:

Project Guide

Head of department

Internal Examiner

External Examiner

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INTRODUCTION

In this project an attempt is made to design a computer system for the CYBER CAFE that makes the management of recording user details,internet usage and billing much easier.The objective of this software is to maintain the details of users,cabins and login history.The system provide facility of prepaid and postpaid accounts respectiveley for Account Users and Walkthrough Users.It has the features like adding,viewing,editing of user details,cabin details, recharge option for prepaid users, billing, tariff settings,etc.

The Software powered by JAVA assures clear and efficient services to the agency.This easy-to-operate system helps to access and modify user details, provides efficient billing facility.The software designed to provide Reliable and error free information. On successful login the user can load browser and can have access to internet.

The login time displayed on the login screen may help the users manage their usage.On logout the internet usage charges and available balance in the account will be displayed.

System Analysis:

EXISTING SYSTEM:-

Most of the functions in Cyber cafes are done manually. Even though there are LAN connections and an administrator system, an automated system is not introduced. The owner records the details of the clients, login and logout time, cabin and has to calculate the amount. All these details are written in book. Also there is no special system to allocate cabins efficiently.

The owner also has to calculate the total income of a day.

Disadvantages of Existing System:-

- Chances of error**
- Difficulty in allocating cabins**
- The retrieval of information regarding a client is time consuming**
- Lack of billing system and manual calculation of daily income**
- Repeated recording of frequent user details**
- Manual recording consumes excess time**

PROPOSED SYSTEM:-

The Cyber Cafe Management System which we design is in the same line of the existing system. No procedural changes are made to the existing system except the login process done by the customers.

The new system we develop has 2 modules. One module is to be installed in the server computer and the second module is to be installed in every client computers. In server module the staff should login with their username and password. Since information regarding the users is needed for further checking, an account can be deleted only after 5 years from the last login date.

That is the information and details regarding usage of a user will be kept for at least 5 years.

SCOPE OF SYSTEM:-

- 1. The System we people has to great scope in the current real time situation.**
- 2. The cyber crime monitoring system can be enhanced to an extent by implementing this system.**
- 3. Most of the firms and establishments are being computerized in order to ease the tasks to be performed.**
- 4. The internet cafes unfortunately are rarely computerized.**
- 5. The system can provide the daily report including customer details, login time, logout time, amount, cabin and the total collection of a day.**
- 6. The system will store the details of every up to 5 years since the last login date**

FEASIBILITY STUDY:-

During system analysis, the feasibility study of the proposed system is to be carried out. This is to ensure that proposed system is not burden to the company. This study can be categorized into three types. They are:

ECONOMIC FEASIBILITY STUDY:

This is carried out to check the economic impact that the system will have on the organization. The amount of fund that the company can pour into the research and development of system is limited, the expenditures must be justified.

Thus the developed of system was well within the budget and this was achieved because most of the technologies used are freely available. Only customized products had to be purchased.

TECHNICAL FEASIBILITY STUDY:

This is to study out to check the technical facility, that is, the technical requirements of the system. Any system developed must not have a high demand on the available technical resource. This developed system has modest technical

requirements, as only minimal or null changes are required for implementing this system.

SOCIAL FEASIBILITY STUDY:

This aspect of study is to check the level of acceptance of the system by the user. This includes the process of training the system but must accept it as a necessity. The levels of acceptance by the users solely depend on the methods that are employed to educate the user about the system and make him familiar with it.

His level of confidence must be raised, so that he is also able to make some constructive criticism, which is welcomed, as he is the final user of the system.

SOFTWARE AND HARADWARE REQUIREMENT:-

Software Requirement:

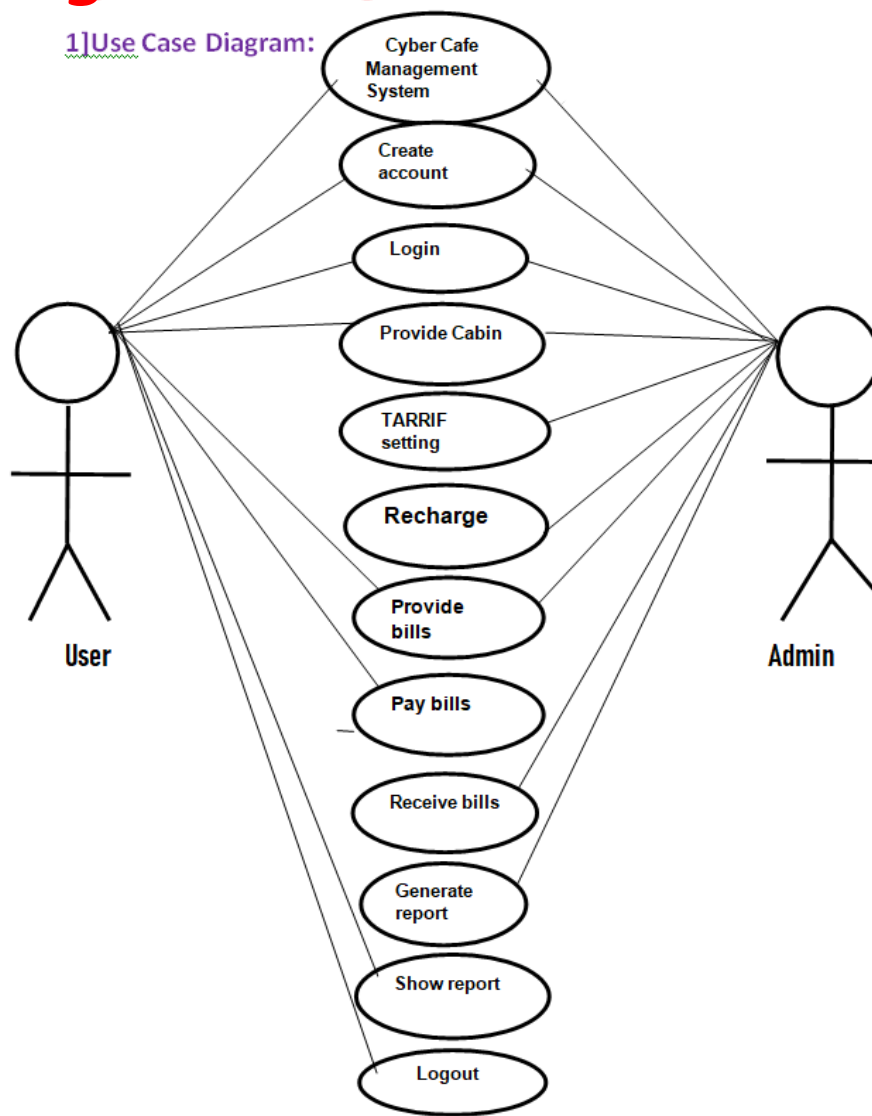
- **Operating system-** Windows 10
- **Front end-** JAVA
- **Back end-** MYSQL
- **Language Used-**Core Java
- **Concept Used-**Swing
- **IDE used-**eclipse

Hardware Requirement:

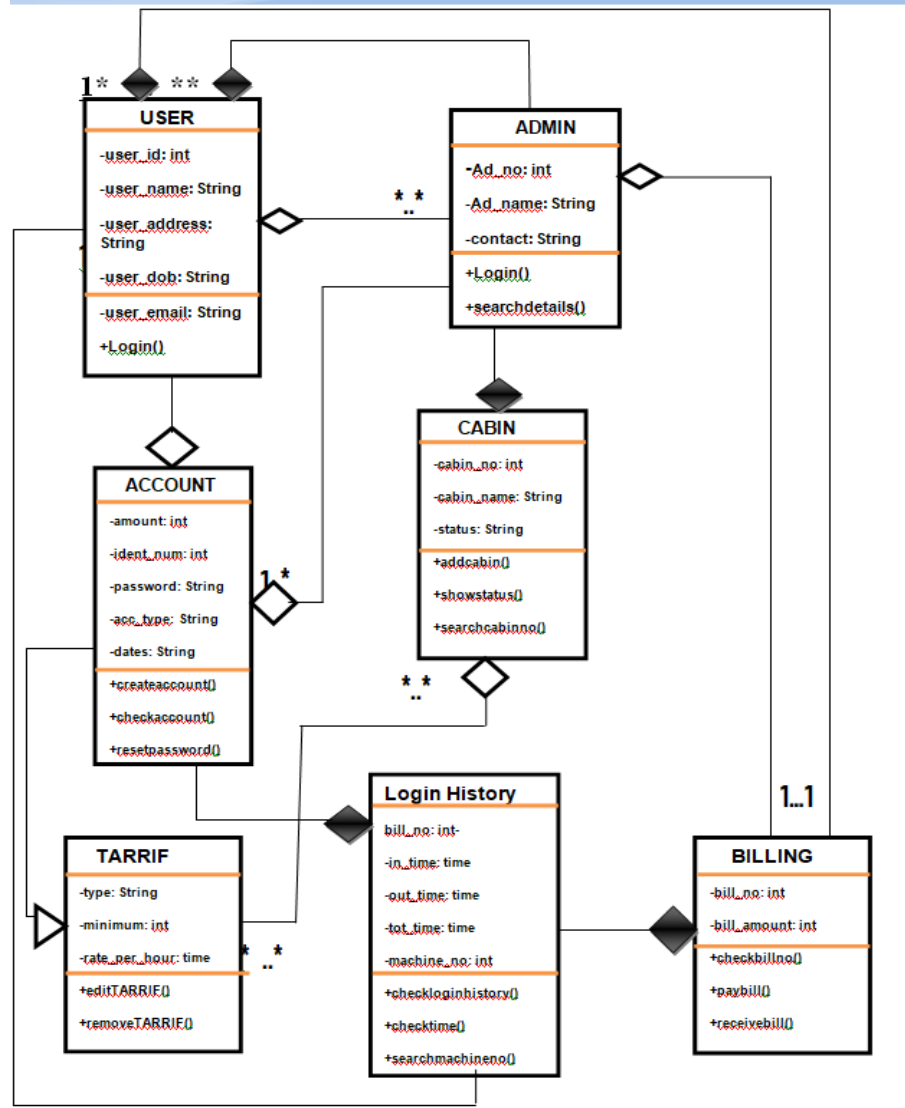
- **Processor-** Any Pentium processor
- **RAM –** 512 MB

System Design:-

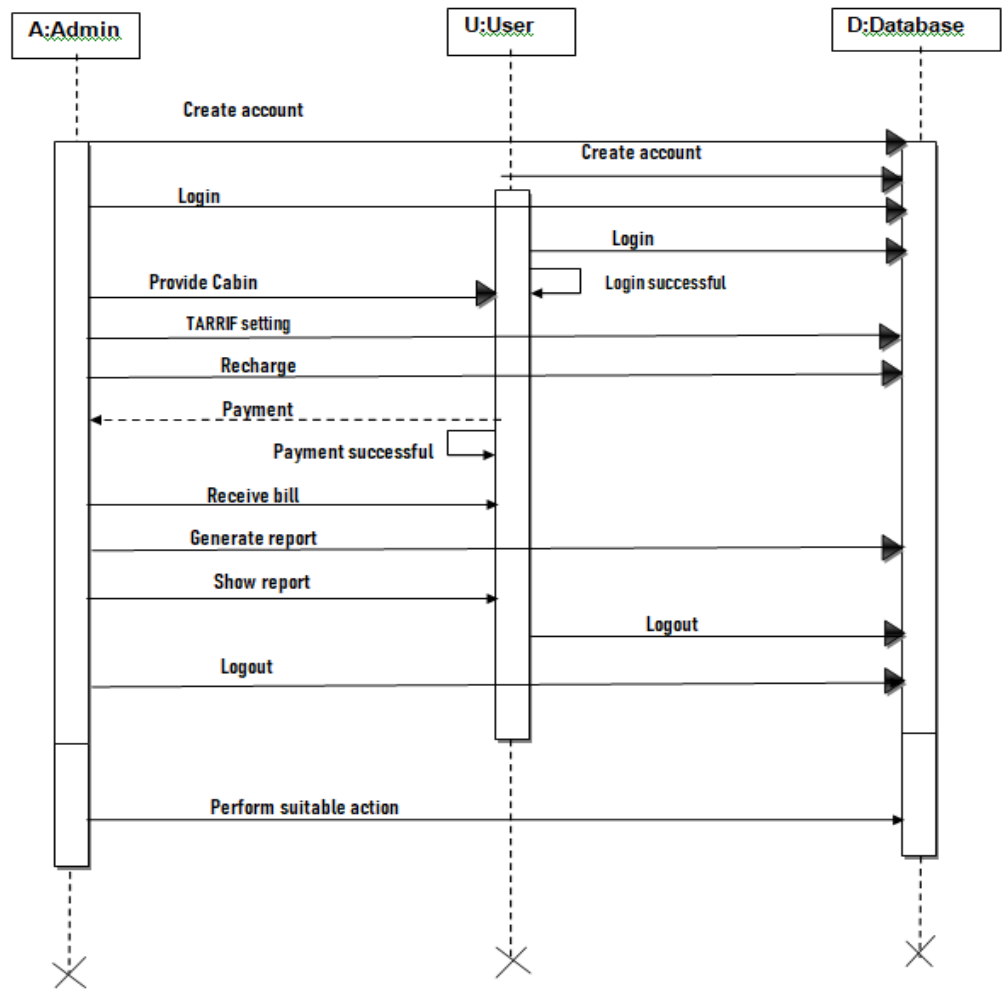
1] Use Case Diagram:



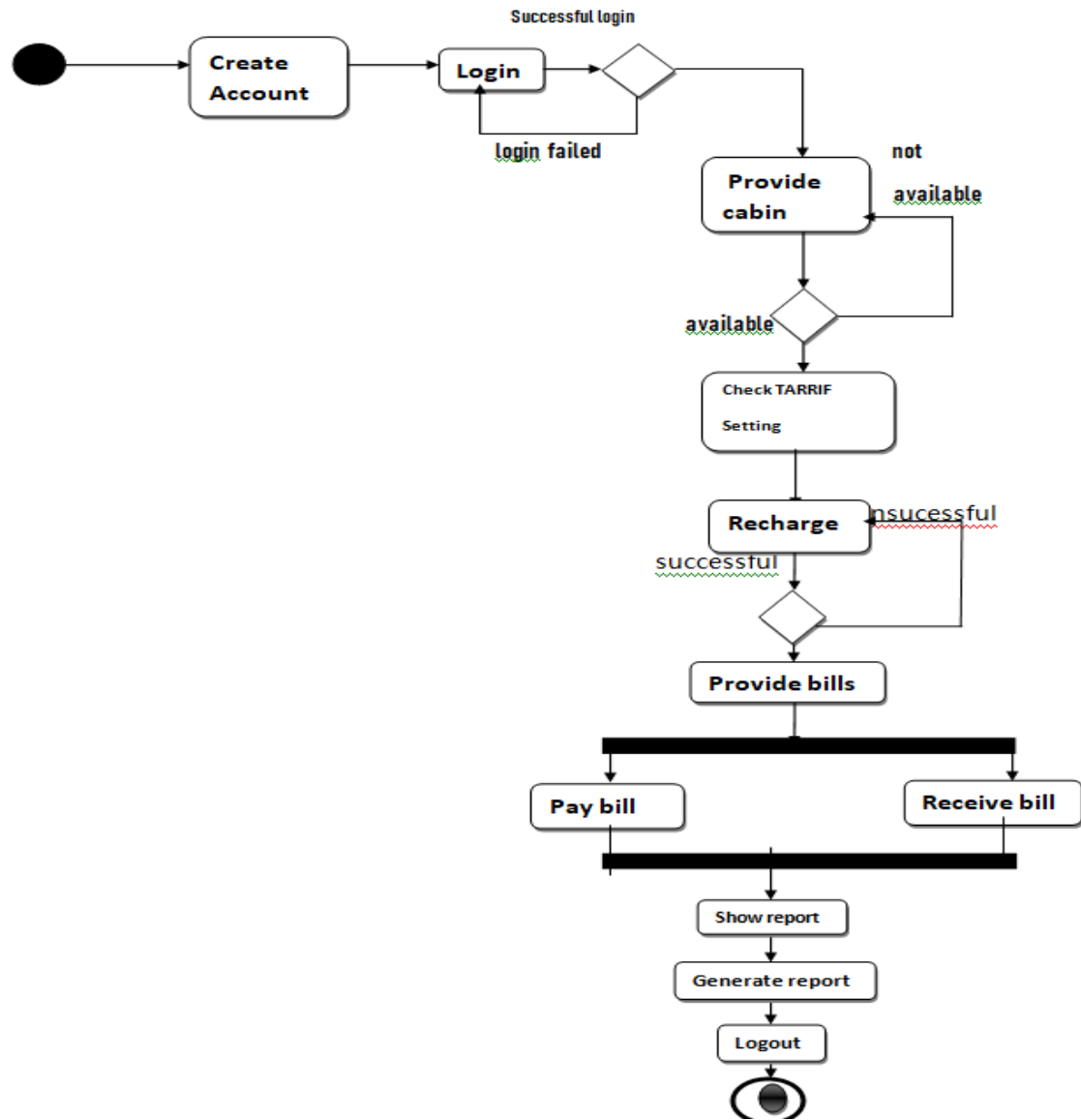
2]CLASS DIAGRAM:



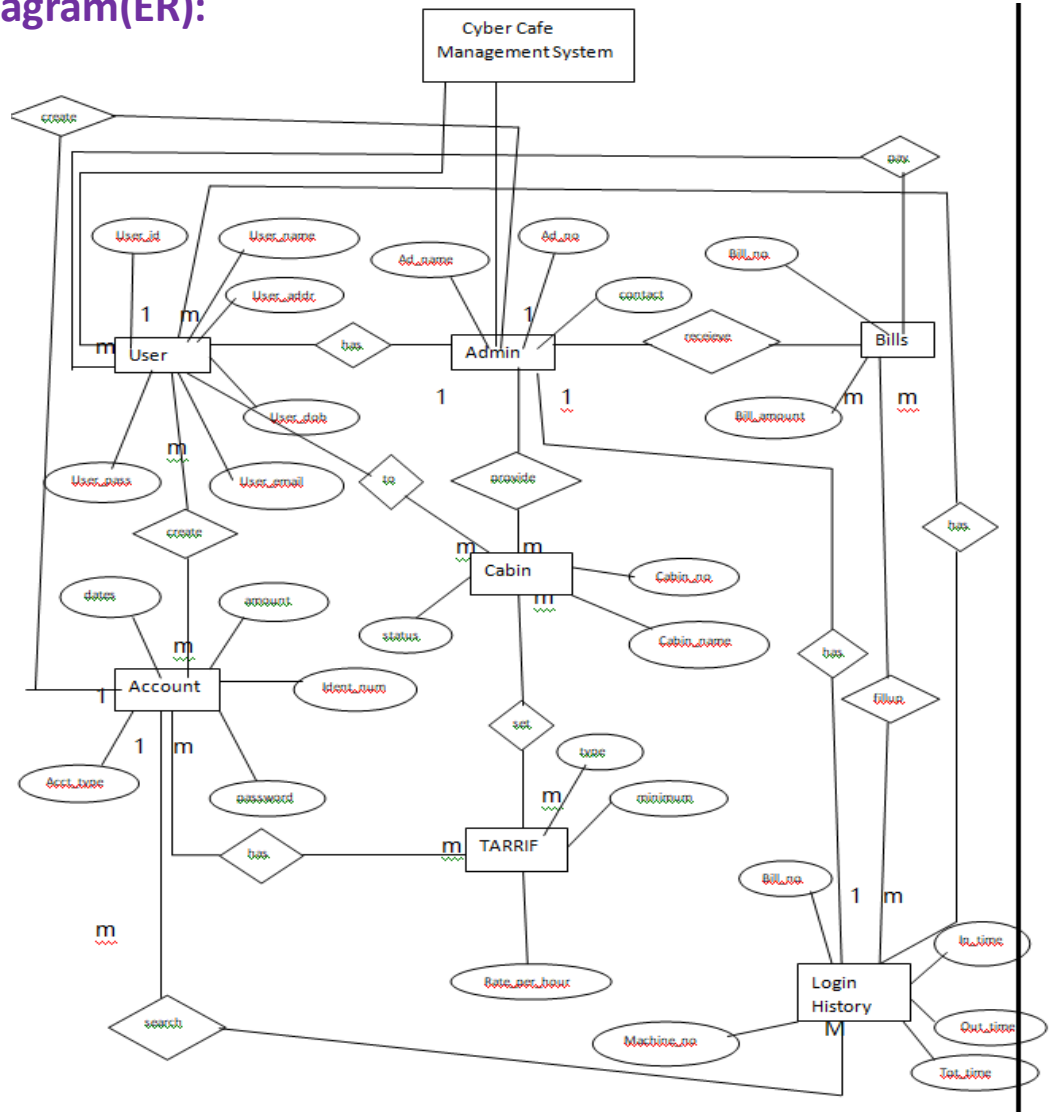
3]Sequence Diagram:



4]Activity Diagram:



5] Entity Relationship Diagram(ER):



DATA DICTIONARY:-

Database : CYBERCAFE

ACCOUNT DETAILS-

<u>Sr.no</u>	<u>Field name</u>	<u>data types</u>	<u>constraiant</u>	<u>Description</u>
1	<u>Userid</u>	<u>Varchar(255)</u>	<u>Primary Key</u>	<u>User's id</u>
2	<u>Name</u>	<u>Varchar(255)</u>	<u>Not null</u>	<u>User's full name</u>
3	<u>password</u>	<u>Varchar(255)</u>	<u>Not null</u>	<u>User's password</u>
4	<u>Address</u>	<u>Varchar(255)</u>	<u>Not null</u>	<u>User's address</u>
5	<u>Identificat ion</u>	<u>Varchar(255)</u>	<u>Not null</u>	<u>Type of identify proof</u>
6	<u>Identificat ionnum</u>	<u>Varchar(255)</u>	<u>Not null</u>	<u>Identity card number</u>
7	<u>Amount</u>	<u>Int</u>	<u>Not null</u>	<u>Amount in the account</u>
8	<u>Dates</u>	<u>date</u>	<u>Not null</u>	<u>Date of creation of account</u>

9	<u>Acctype</u>	<u>Varchar(255)</u>	<u>Not null</u>	<u>Type of account</u>
----------	-----------------------	----------------------------	------------------------	-------------------------------

CABIN DETAILS-

<u>Sr .no</u>	<u>Field name</u>	<u>Datatype</u>	<u>constriant</u>	<u>Descriptio n</u>
1	<u>cabinno</u>	<u>Int</u>	<u>Primary key</u>	<u>Cabin number</u>
2	<u>cabinname</u>	<u>Varchar(255)</u> <u>)</u>	<u>Varchar(255)</u> <u>)</u>	<u>Name of host system</u>
3	<u>status</u>	<u>Varchar(255)</u> <u>)</u>	<u>Varchar(255)</u> <u>)</u>	<u>In use or not</u>

TARIFF DETAILS-

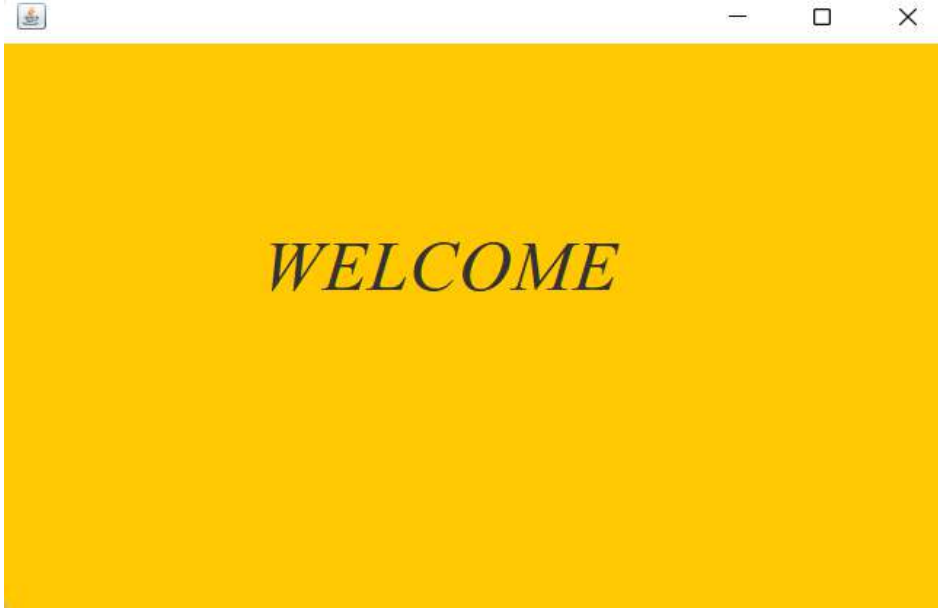
<u>Sr.no</u>	<u>Field name</u>	<u>Datatype</u>	<u>constriant</u>	<u>Descriptio n</u>
1	Type	Varchar(255)	Varchar(255)	Type of account
2	rateperh our	Time	Time	Rate per hour for internet usage
3	minimu m	Int(11)	Int(11)	Minimum internet charges

LOGINHISTORY DETAILS-

<u>Sr.no</u>	<u>Field name</u>	<u>data types</u>	<u>constriant</u>	<u>Description</u>
1	<u>billno</u>	<u>Int</u>	<u>Not null</u>	<u>Bill no</u>
2	<u>userid</u>	<u>Int</u>	<u>Not null</u>	<u>User's id</u>
3	<u>acctype</u>	<u>Varchar(255)</u>	<u>Not null</u>	<u>Type of account</u>
4	<u>intime</u>	<u>time</u>	<u>Not null</u>	<u>Login time</u>
5	<u>outtime</u>	<u>time</u>	<u>Not null</u>	<u>Logout time</u>
6	<u>Tottime</u>	<u>Time</u>	<u>Not null</u>	<u>Duration of browsing</u>
7	<u>Amount</u>	<u>Int</u>	<u>Not null</u>	<u>Bill amount</u>
8	<u>Machinen o</u>	<u>Int</u>	<u>Primary key</u>	<u>Cabin number used</u>
9	<u>dates</u>	<u>date</u>	<u>Not null</u>	<u>Date of browsing</u>

SYSTEM IMPLEMENTATION:

*******SCREENSHOTS*******




USER LOGIN PAGE



The image shows a screenshot of a web application window titled "User Screen". The window has a light purple background and a standard Windows-style title bar with minimize, maximize, and close buttons. The main content area contains the following elements:

- User Name:** A text input field containing the name "Neha Sawant".
- Password:** A password input field with masked characters "XXXXXXXX".
- Buttons:** Three yellow buttons labeled "LOGIN", "LOGOUT", and "CANCEL" are arranged horizontally below the password field. A blue button labeled "LOAD BROWSER" is positioned below the "LOGIN" button.

ADMIN LOGIN PAGE



A screenshot of a web browser window titled "Administrator Login". The window has a light red background and a standard window title bar with a minimize button, a maximize button, and a close button. The main content area contains two input fields: "Admin Name:" with the value "cyberadmin123" and "Admin Password:" with the value "*****". Below the input fields are two buttons: "LOGIN" and "LOGOUT".

Administrator Login

Admin Name:

Admin Password:

*******HOME PAGE*******



MAIN SCREEN

USER LOGIN PAGE

ADMIN LOGIN PAGE

CREATE ACCOUNT FORM

DELETE ACCOUNT FORM

TARIFF FORM

CABIN FORM

RECHARGE

BILLING

REPORT



CREATE ACCOUNT FORM

Create AN Account

USER ID:	<input type="text" value="1001"/>
FULL NAME:	<input type="text" value="Shweta Ram Kharat"/>
PASSWORD:	<input type="password" value="*****"/>
IDENTIFICATION:	<input type="text" value="License"/>
ACCOUNT TYPE:	<input type="text" value="Account User"/>
ID NUMBER:	<input type="text" value="123456"/>
ADDRESS:	<input type="text" value="Karvenagar,Pune -Maharashtra-India-412312"/>

DELETE ACCOUNT FORM

The image shows a screenshot of a web form titled "Delete AN Account". The form has a white background and is contained within a window with a title bar. The title bar includes a small icon on the left and standard window controls (minimize, maximize, close) on the right. The form itself has a title "Delete AN Account" in the top left corner. Below the title, there are two input fields. The first is labeled "USER ID:" and contains the value "1021". The second is labeled "FULL NAME:" and contains the value "Aakansha Santosh Rakshe". At the bottom of the form, there are three buttons: "OK" (red), "EDIT" (red), and "DELETE" (grey).

Delete AN Account

USER ID:

FULL NAME:

OK **EDIT** **DELETE**

TARIFF FORM

TARIFF SETTING FORM

ACCOUNT TYPE:

AMOUNT:

CABIN FORM



The image shows a web browser window with the title "CABIN FORM". The page has a light orange background. At the top left, the text "CABIN FORM" is displayed. Below this, there are two input fields. The first is labeled "CABIN NUMBER:" and contains the value "75890". The second is labeled "CABIN NAME:" and contains the value "Cabin-01". Below the input fields, there are three buttons: "ADD", "DELETE", and "RESET".

CABIN FORM

CABIN NUMBER: 75890

CABIN NAME: Cabin-01

ADD DELETE RESET

RECHARGE FORM

RECHARGE FORM

USER ID:

RECHARGE AMOUNT:

RECHARGE **RESET**

Amount Left In The Account: **Rs.only**

BILLING FORM

BILLING FORM

CABIN NUMBER:

BILL AMOUNT: rupees

DURATION OF USAGE: minutes

REPORT

REPORT FORM

REPORT TYPE:

OK **CANCEL**

User id(for user report):

Machine no(for machine report):

THANK YOU



Limitations:

1. Requires more programming code.
2. Walkthrough user cannot open account permanently.
3. Cyber security are available.

Future Enhancement:

- 1. Time managed system for future works.**
- 2. Provides high security the system and hence Unauthorized user can be prevented.**
- 3. Forms are very user friendly.**
- 4. In future very high network build in this system.**

Bibliography:-

For development the system we referred the books:

Java programming

Software Engineering books

Websites:

www.google.com