Team Project
Deliverable 4 – Project Phase 2
CSCE 5430 (Fall 2021)

Hand-in and demo:

1. **Code:** All of the source code for your working program: check them in the designated source code directory (**phase 2**) in your project repository.

2. **Report:** One document (e.g., Deliverable-4.pdf) that contains the following items:
   NOTE: The scope of deliverable 4 is different from deliverable 3, so all items should be updated accordingly.
   a. Requirements
      List a set of requirements designated for this development phase.
      - If the scope for this phase is unchanged, use the same requirements of phase 2 specified in Deliverable 2.
      - If not, explain the reasons why the plan is changed and describe the updated plan including the modified set of requirements for all phases.

FUNCTIONAL REQUIREMENTS FOR PHASE 2:

The functional requirements for phase 2 are as follows:

- User Interface: Proper web UI is offered for the user.
- Home Page: After log in by the user, various Services are offered to the customer. All of them are mentioned in the Home Page. They are geyser repairs, electric repairs, plumbing fixes, carpentry works, computer repairs, and painting works.
- Navigation Page: Navigation Page allows the user to navigate to various pages.
- After Scheduling appointment by the customer, worker is sent to the work location.
- Providing Services Information: Information on various services are provided and after clicking on each service user is navigated to other page where the user has to enter the details like name, mobile number, Email Address, city and pin code.
- NetBeans have to be installed properly for running the backend code.

NON-FUNCTIONAL REQUIREMENTS:

The non-functional requirements are as follows:

The quality constraints that satisfy our project are

i) Flexibility – Everyone without any restrictions, can use the webservice after registering.

ii) Security – All the details of the users like username, password are highly secured and personal information like name, address and mobile number will not be shared to any at any cost.

iii) Efficiency – The web application is highly efficient i.e., the performance of the project is high, and all the provided service requirements of the user will be met, and the efficiency is maintained every time.

iv) Portability – Every Linux, mac and windows user can use the web application as it is portable, and the storage required is less.

v) Reliability – Correctness is offered at every step. Any problem is not caused to the customer during login and service request and all the operations related to the user will always be properly monitered. Admin always verifies the product and maintains reliability.

INTERFACES:

User Requirements:

- Initially the user must create an account after opening the webpage.
- During the account creation, all personal details like name, email, contact number and address are to be entered.
- After account creation, user has to login and is navigated to the login page.
- All the accounts are managed by the Admin.
- In the login page, the user must enter the Username and password and must login.
- After logging in, home page is displayed, and various problems can be browsed like carpentry works, electric fixes, plumbing fixes, computer repairs and painting works.
- The user must select the appropriate one based on his requirement.
- After clicking on the required service user is navigated to a page where details like name, mobile number, address, city and pin code are entered.

- Scheduling an appointment requesting for the service and all the further steps are implemented in the further phases.

Front End Design:

Software Technologies Used:

HTML (Hyper Text Markup Language)**:** HTML **is** a traditional language used for communication between Webserver and net shopper. It is the basic language within the middle of server and shopper and stands for Hyper Text terminology.

Cascading Style Sheets: It is a style sheet language used for describing the presentation of a document written in a markup language like HTML.

JavaScript:

JavaScript is the programming language used for the web. JavaScript can update and change both HTML and CSS. JavaScript can calculate, manipulate and validate data.

Boot Strap:

Boot Strap is the most popular HTML, CSS and JS framework for developing responsive, mobile first projects on the web.

Backend Design:

NetBeans: NetBeans is an integrated development environment for java. NetBeans is used for developing Java Desktop applications and is referred as a platform of modular components.

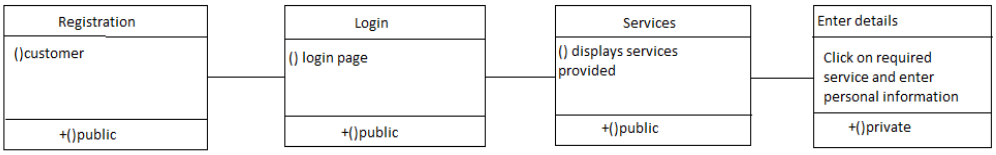
HARDWARE REQUIREMENTS:

Processor	:	Intel 13 and above
RAM	:	2 GB and above
Hard Disk	:	500 GB and above

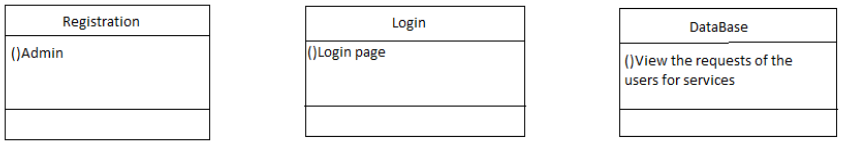
b. UML design. You must include the following diagrams:
   - Class diagram

Class Diagram:

Customer:



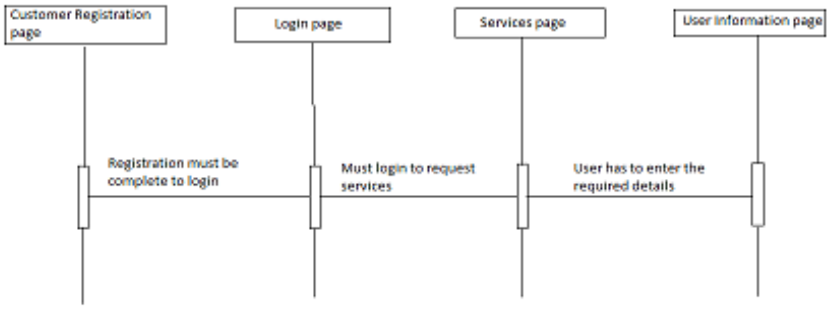
Admin:



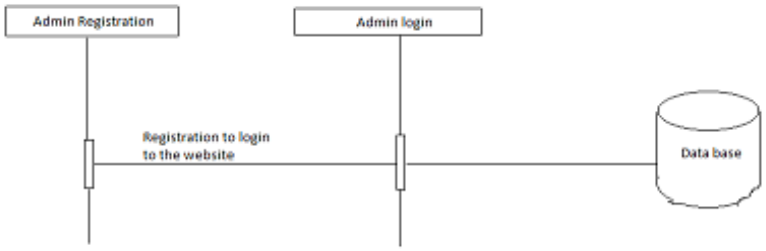
- Sequence diagram

Sequence diagram:

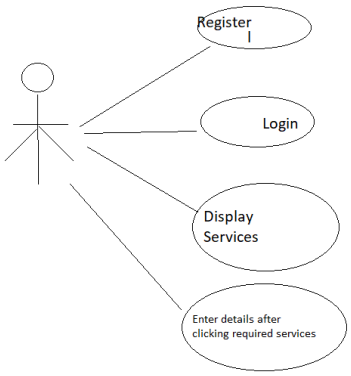
Customer:

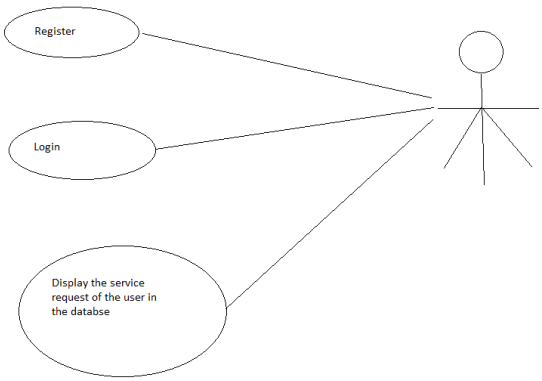


Admin:



- Use case diagram – one normal case and one error case should be included.





c. Test Cases (unit tests)
List a set of test cases used for testing the working program including descriptions of tests (e.g., what functionality they test, and inputs/outputs for them).

Step No.	Test Case	Step Description	Expected Output	Actual Output	Result
1	Installing NetBeans	Installing NetBeans	Executed	Executed	Success
2	Running html Code	Running html Code	Executed	Executed	Success
3	Running html Code	Running html Code	Executed	Not Executed (if Code is incorrect)	Fail
4	Running jsp Code	Running jsp Code	Executed	Executed	Success
5	Running jsp Code	Running jsp Code	Executed	Not Executed (if Code is incorrect)	Fail
6	User Registration	User entering his details like Username, Password, Mail ID for sign up	Successfully signed up	Successfully signed up	Success
7	Admin Registration	Admin entering his details like Username, Password,	Successfully signed up	Successfully signed up	Success

		Mail ID etc.. for sign up			
8	Admin Login	Enters Username, Password correctly	Successfully logins	Successfully logins	Success
9	User Login	Enters Username, Password correctly	Successfully logins	Successfully logins	Success
10	Admin Login	Enters Username or Password incorrectly	Successfully logins	Login Fails	Fail
11	User Login	Enters Username or Password incorrectly	Successfully logins	Login Fails	Fail
12	Services page	After successful login services page is displayed	Displays services page	Displays services page	Success
13	Services page	If login fails services page is not displayed	Displays services page	Services page is not displayed	Fail

d. A user manual that tells us how to use your program. This is meant for the end-user of the software. You may include screen shots, where appropriate.

- Download the project repository from GitHub.
- Verify whether all the documents in the folders are properly downloaded or not.
- Code for the front end has to saved in .html format and the html pages will get displayed according to the written code.
- Run the backend code through NetBeans after installing JDK.
- Registration page will get displayed. After registering it navigates to the

login page. After login services offered will get displayed.

- Required service has to be clicked and the asked details like name, phone number, email, address, city and pincode have to be entered.

e. Clear instructions on how to compile/run both your program and your test cases (the program must compile/run).

- For the front end, all the html code admin and user login page, admin and user registration page, main page and services page have to be saved in a folder. All the html pages will get displayed according to the written code.
- Code related to backend is written in jsp format. Oracle Java and NetBeans have to be installed to run the jsp code.
- JDK has to be installed according to the OS platform. Windows users has to install Windows JDK. Mac Users and Linux Users has to install the one which supports their OS.
- Install NetBeans. Installing NetBeans will also install Java SE, Java EE, HTML/ JavaScript, PHP.
- After installing a new project has to be created and a project name has to be given and project location has to be set.
- We must put all the code in the folders created in the given project name and run the code.
- We get the required output.

f. A section that briefly describes feedback received during **the code inspection** session and actions taken based on the feedback.

ANS: During the code inspection section, various discussions took place and the feedback received is quite positive. They have seen whether all the mentioned requirements are met so far. i.e., whether all the provided services are displayed on the home page or not. All the Mighty8 teammates verified all the html pages like user login page, admin login page and user, admin registration pages. All the team members executed all the front-end code and checked whether it is error free or not.

They also verified whether all the pictures in the provided folder are displayed in the html pages accordingly or not i.e., verified whether linkups in the code are properly given or not. After inspecting the total code, the feedback received is quite positive. They have also verified on the suggestions provided during the peer review session and we said those will be developed in the further phases.

g. A brief reflection on what has been accomplished, what went well and could be improved.

ANS: So far, we have implemented the front end of the project. Initially, in the Home Page, there will be two options i.e., admin and users. The admin must click over the admin one and the user has to click over the user one. After clicking it navigates to register and login page. While registering the admin and user must enter the username and password and there also there will be an option to re-enter password in order to check whether the entered password is correct or incorrect. There will also be an option to enter email and after entering email, they have to sign up. After signing, it navigates to the services page. In that page all the offered services will get displayed. After clicking on the required service, the user is navigated to a page where the details have to be entered like name, mobile number, email ID, address, city and pin code have to be entered. This is an improvement from the previous phase for all the services. Code for the client side is developed. For the backend, MySQL has to be installed for connecting to the database. After total project completion, a weblink will be shared and using that link, the end-user can use our application.

h. Member contribution table (should describe who wrote what components or classes of the system and what parts of the report). Add more rows as needed.

Member name	Contribution description	Overall Contribution (%)	Note (if applicable)
Pavithra Telukuntla	Project Report and Code Implementation	12.5%	Test Cases and UML diagrams
Akhila Katkuri	Project Report and Code Implementation	12.5%	Requirements Specification
Srujana Pamidimukkala	Project Report and Code Implementation	12.5%	Core Functionalities

Anusha Todupunoori	Project Report and Code Implementation	12.5%	Test Cases
Rajashekar Reddy Chirumani	Project Report and Code Implementation	12.5%	UML Diagrams
Vivek Vardhan Gutta	Project Report and Code Implementation	12.5%	Core Functionalities
Anwar Hussain Shaik	Project Report and Code Implementation	12.5%	Requirements Specification
Harshit Reddy Nagireddy	Project Report and Code Implementation	12.5%	Test Cases

3. The updated meeting minutes (in the project repository).

4. **Demo:** done in class, 10/30.