

Team Project

Deliverable 5 – Project Phase 3

CSCE 5430 (Fall 2021)

1. **Code:** All of the source code for your working program: check them in the designated source code directory (**phase 3**) in your project repository.
2. **Report:** One document (e.g., Deliverable-5.pdf) that contains the following items:
NOTE: The scope of deliverable 5 is different from deliverables 3 and 4, 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 1 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 3:

The functional requirements for phase 3 are as follows:

- **User Interface:** Proper web UI is offered to 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.
- **MYSQL** has to be installed. Database has to be setup using MYSQL workbench. MYSQL workbench will be installed during MYSQL installation itself.

NON-FUNCTIONAL REQUIREMENTS:

The non-functional requirements for phase 3 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 monitored. 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.

Database Setup:

MYSQL: MYSQL is a Oracle-backed open source Relational Database Management System (RDBMS). It is based on SQL (Structural Query Language). MYSQL runs virtually on all platforms including Linux, Windows, and Unix. MYSQL workbench has to be installed in order to set up the database. MYSQL workbench is installed during the MYSQL installation.

SOFTWARE REQUIREMENTS:

Operating System	: Windows7, 8.0, 8.1, 10, MacOS, Linux...
Browser	: Google Chrome, Microsoft Edge, Mozilla Firefox...
Development Platform	: NETBEANS IDE with JDK

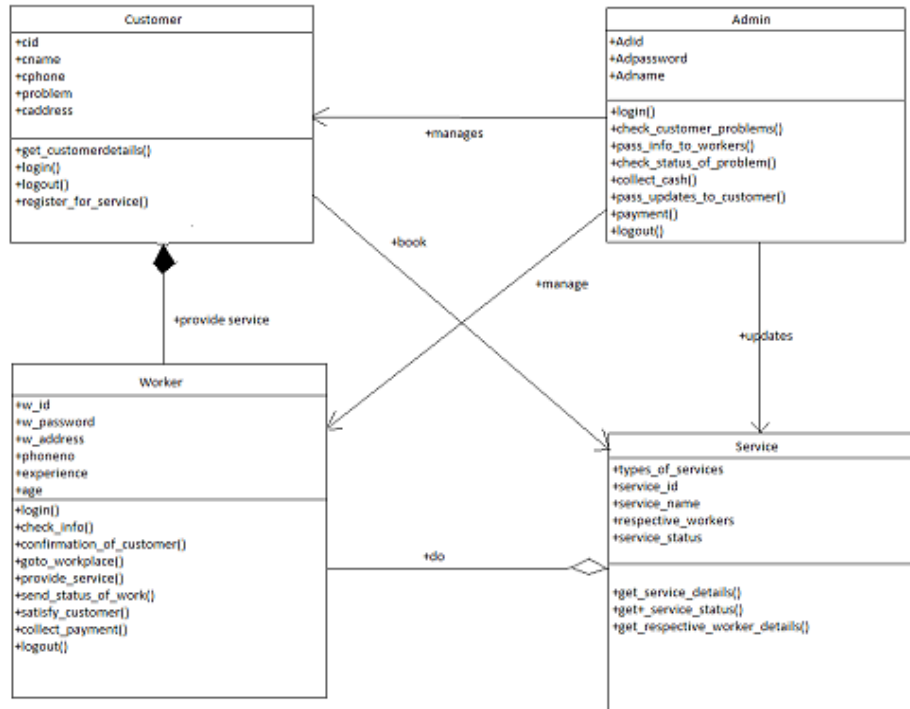
HARDWARE REQUIREMENTS:

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:

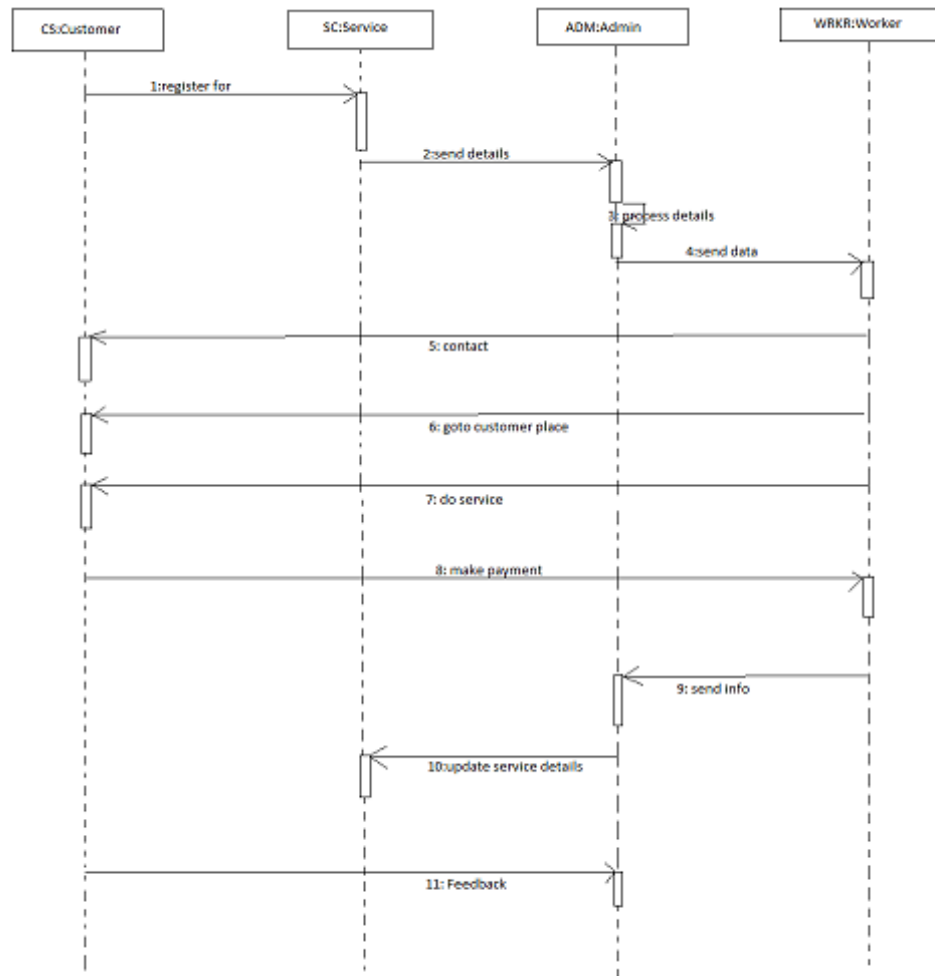
- Class diagram

Class Diagram:



- Sequence diagram

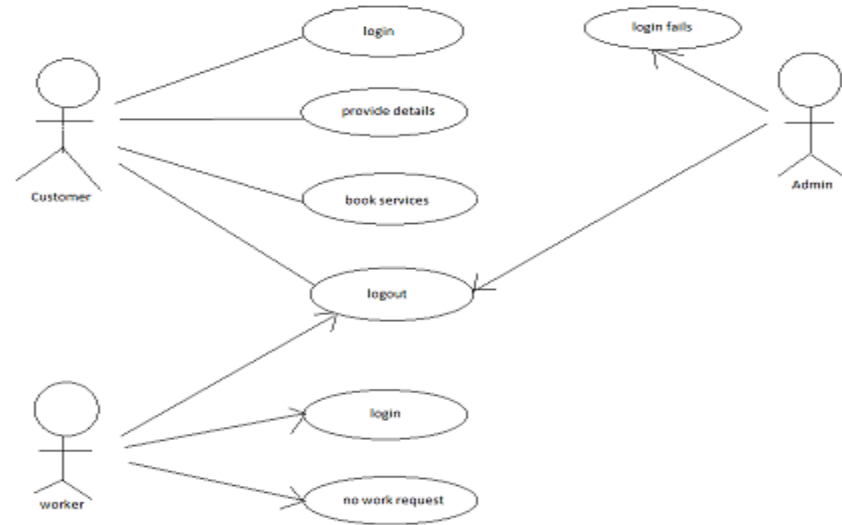
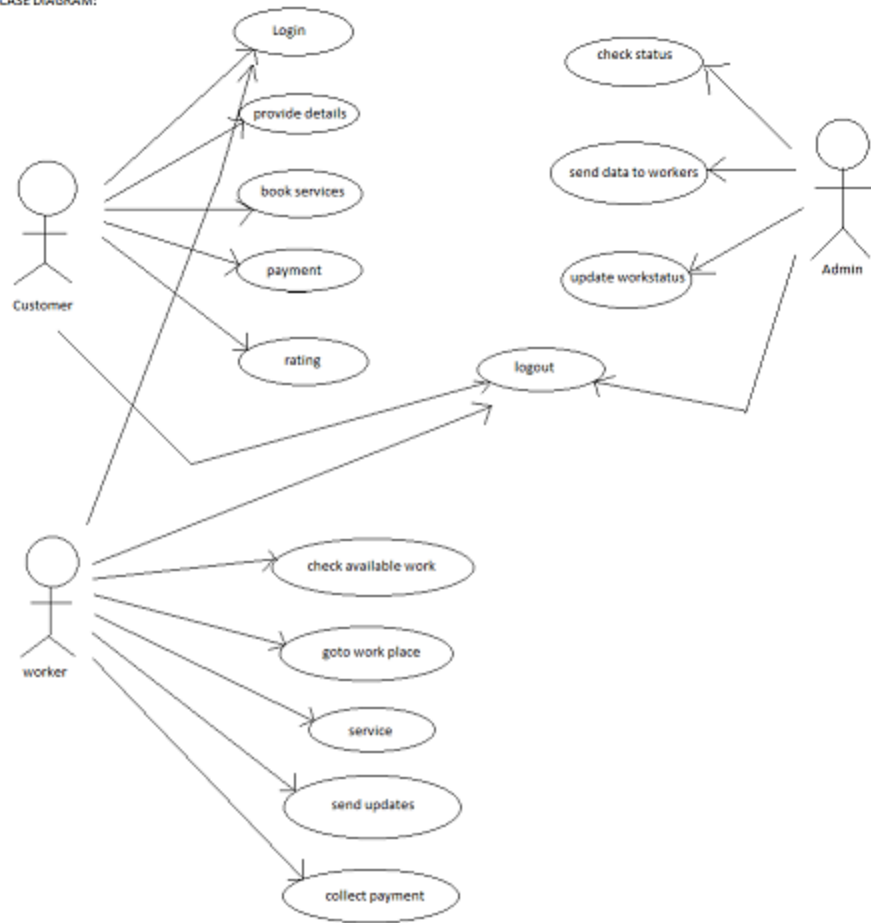
Sequence Diagram:



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

1- Normal Case; 2- Error Case

USECASE DIAGRAM:



c. Test Cases (**unit tests + system 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). While unit testing focuses on the components that have been implemented in phase 3, system testing should consider **the entire project** (components that have been implemented through all three phases).

Step No.	Test Case	Step Description	Expected Output	Actual Output	Result
1	Installing NetBeans	Installing NetBeans	Installed	Installed	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	User entering his details like Username, Password, Mail ID for sign up	Successfully signed up	Successfully signed up	Success
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	Successfully logins	Login Fails	Fail

		Password incorrectly			
11	User Login	Enters Username or Password incorrectly	Successfully logins	Login Fails	Fail
12	Services page	After successful login, services page is displayed	Displays Home page	Displays Home page	Success
13	Services page	If login fails, services page is not displayed	Displays Home page	Home page is not displayed	Fail
14	Database Setup	Database Connection	Database Connected	Database Connected	Success
15	Database Setup	Database Connection	Database Connected	Database not connected	Fail

Reason for Failure output:

During Admin and User login: If user or admin enters incorrect username or password login fails. For instance, password is entered as 'pavi12' instead of "Pavi123" login fails.

Code Error: If there is any error in code execution fails. For instance, in for loop if the parenthesis is not closed, then the output comes as "Parenthesis Error".

Database Setup Fail: If incorrect database name is given, then database failure takes place.

- 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.

ANS: A web link is shared to everyone. Clicking over the link navigates the user to the registration page. The user has to enter all the asked details like Username, password, must reenter the password to verify, Mobile number and Address. After signing up, the user is navigated to the home page. If the user is already registered, he has to login by entering the user name and password. Username and password have to be entered correctly. Incorrectly entering username and password does not navigate to home page. After successful login,

user is navigated to home page. On the top of the home page, services option is provided. On clicking on the services, various services are provided. User has to click on the required service and he is navigated to a page where all the personal information has to be entered like name, mobile number, address etc. Then the user has to schedule an appointment. The worker comes to the location in the scheduled time and does work. After work completion, user pays to the worker. After, the user gives the feedback, based on the work satisfaction. User is the one who decides the growth of the business.

- 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.
 - MYSQL has to be installed in order to connect to the database. MYSQL workbench is used to connect to the database. While installing MYSQL, workbench will also get installed.
- f. A section that describes which features you have successfully implemented and any limitations (i.e., any known problems or issues with your program) such as features that you were unable to complete on time including feedback received

during peer review sessions. It should include discussions of your plans for the next phase of your project. These are the next features and/or improvements you plan to make to your program (assume that you will continue working on this project next semester).

ANS: We have implemented all the features that are promised to be done during the initial phase of the project. As our project is “ONLINE HOME SERVICES” we have included many services like painting, carpentry, electric repairs, plumbing fixes, AC repairs etc. These are all the services recommended to include by the “MIGHTY8” team members. All the services recommended by them have been included except one service which they asked to include during the peer review session i.e. “Packers and Movers”. The role of packers and movers is that they pack all the furniture and items of customers who are going to shift their house from one place to another place. This service is not included because there will be few people who request for this type of service and there are few who offer this kind of service. So, it would be really difficult to find the workers who offer this service. The customer gets disappointed if the service is not offered even after requesting for the service if the service is provided in the services list and this may impact the growth of the business and the customers interest towards the web application may decline. Hence this service is not included. And in the future, maybe this service will be offered along with few other services based on the customers demand and requirement. Also, there might be a change in the payment method to the worker by the customer. Currently, only cash will be collected from the customer and in the future, mode of payment may change to card or online transaction etc. and these will be the improvements in the future and later on few updates will be carried out.

- 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 over them, it is navigated to register and login pages. While registering,

both the admin and users 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 Home page. In that page on the top, there is an option called services and after clicking over it all the services will get displayed. After clicking on the required service, the user is navigated to a page where all the personal information has to be entered like name, mobile number, email ID, address, city and pin code. Code for the client side is developed and for that purpose NETBEANS is used. In order to connect to the database MYSQL is installed. All the required features are included so far and may be in the future additional services might be added based on the requirement and demand from the customers. There might also be a change in the payment method to the workers in the future and this will be an improvement in the future.

- 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, Requirements specification
Srujana Pamidimukkala	Project report and Code implementation	12.5%	UML Diagrams, Testcases
Akhila Katkuri	Project report and Code implementation	12.5%	Requirements Specification
Anusha Todupunoori	Project report and Code implementation	12.5%	Unit Test Cases, UML diagrams
Vivek Vardhan Gutta	Project report and Code implementation	12.5%	UML diagrams
Anwar Hussain Shaik	Project report and Code implementation	12.5%	System Test Cases

Rajashekar Reddy Chirumani	Project report and Code implementation	12.5%	UML diagrams, Test Cases
Harshit Reddy Nagireddy	Project report and Code implementation	12.5%	Requirements

3. The updated meeting minutes (in the project repository).
4. **Presentation and Demo:** done in class, 11/20.