

Team Project  
Deliverable 2 – Requirements Specifications  
CSCE 5430 (Fall 2021)

1. The overall structure of the system. This should contain a diagram and descriptions about the system structure including individual components (subsystems).

**SYSTEM DESCRIPTION:**

The main aim of the project is to make common man's life easier. In the present world, common people are facing lot of problems due to unavailability of proper home services. We can observe in our day to day life that when something gets repaired in our home and when we want to fix the issue, we usually contact workers. Here the problem arises, the workers may not be available or they charge high amount of money even for small fixations. Then we keep on searching for the workers, who will satisfy us. Here comes our project ONLINE HOME SERVICES and the process is quite easier. Here the customer is provided with online web application (user friendly), after logging in, in the home page, he can select all his problems regarding home such as washing machine repairs, electric repairs, plumbing fixes etc... Then the customer schedules the appointment and logouts. Now the admin contacts the workers and provides door step services 24/7 at reasonable charges. After fixing the problem, the service provider collects the money from the customer. With this process both the time and money get saved thus making the common man's life easier. The service provider can also check all the repairs near by the current customer location, thus benefiting both the customer and the service provider. Finally, customer gives feedback based on the work done.

The project consists of three modules:

1. Administration Module
2. User Module
3. Worker Module

**ADMINISTRATION MODULE:**

- The admin is the one who has control over everything.

- The admin gets service request from the customer and he informs the details to the service provider and sends the location of the customer.
- After work completion, he updates the work status and checks the feedback provided by the customer and takes actions accordingly.
- The admin manages all the customer complaints and solves the complaints in a short period about the service provider.

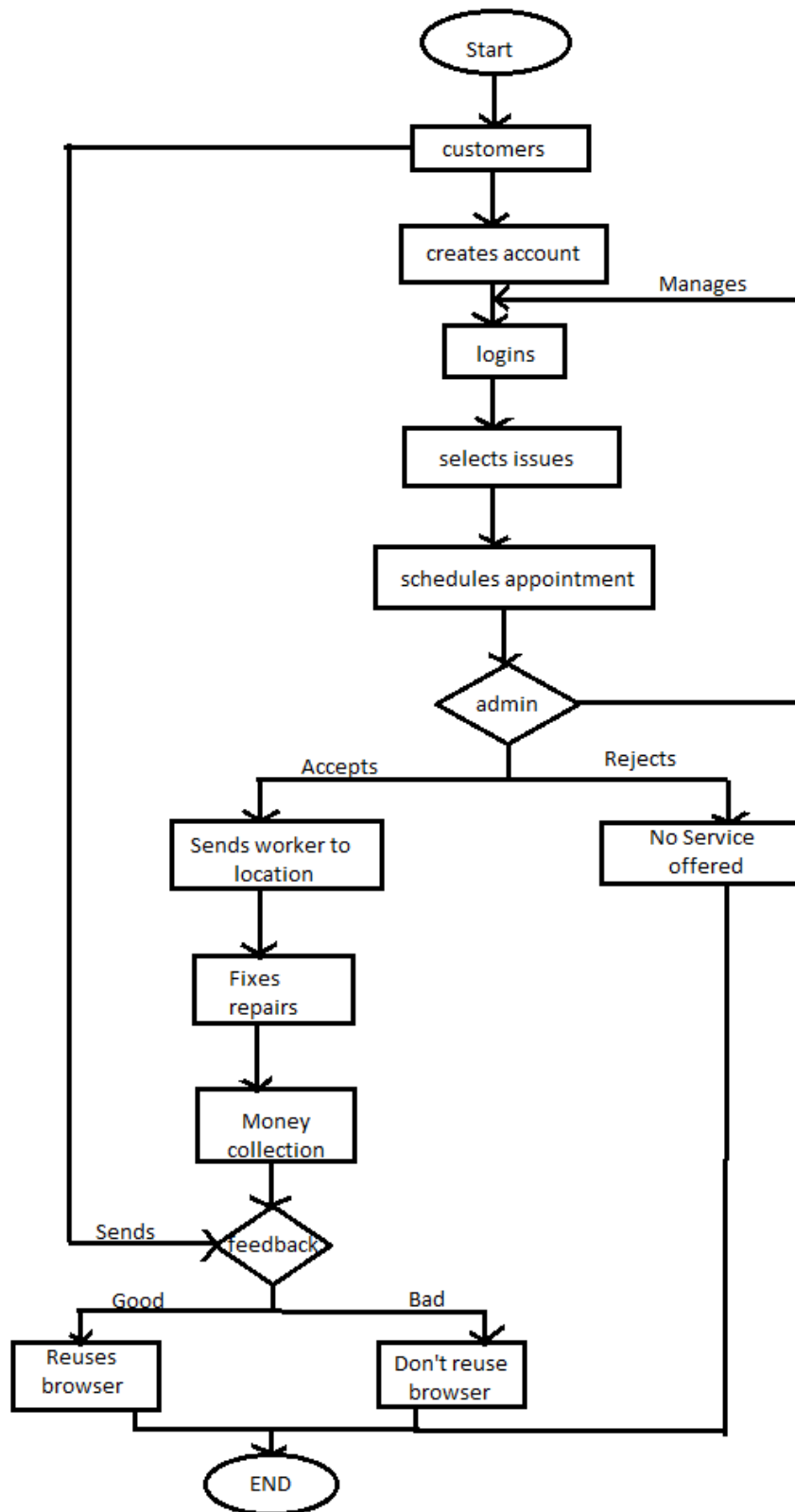
#### **USER MODULE:**

- User is the one who interacts with the web-page and requests for the services.
- Contact details and location are provided by the customer and after work completion feedback is provided. Payment is collected by the service provider.
- Based on his satisfaction he either visits or never visits the web-page.

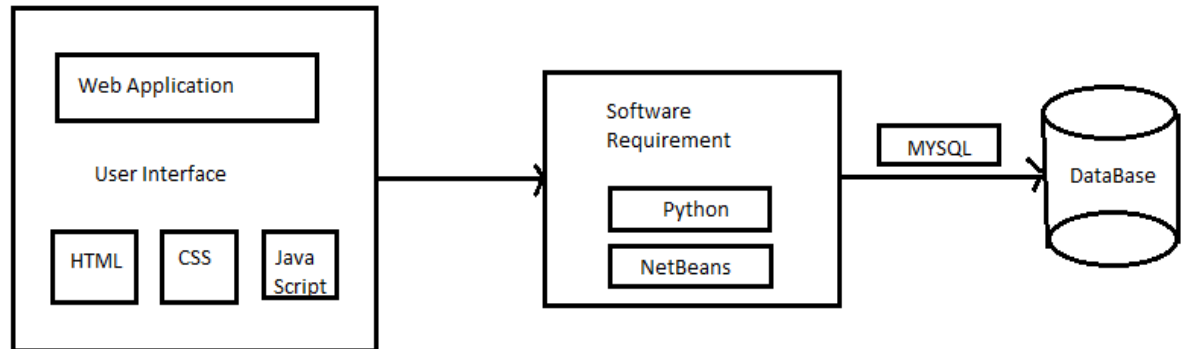
#### **WORKER MODULE:**

- Worker is the one who plays major role in satisfying customers.
- Growth in business is decided by the work done by them. Details about the customer are provided by the admin the worker and the worker go to customer house to fix the problem.
- Status about work completion is sent by the worker to the admin and money is collected from the customer by the worker after work completion.

## FLOW CHART:



## SYSTEM DIAGRAM:



- a. Various Languages are used while making the webpage like HTML, CSS, JavaScript.
  - b. Python, NetBeans are used in the backend
  - c. MYSQL database Server is used.
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2. Written requirements specifications (more information and a template will be given and discussed in class):
    - a. All functional requirements
    - b. All non-functional requirements
    - c. Interfaces (user, hardware, software, and/or communication)

The requirements should be detailed enough to build the project.

## REQUIREMENTS SPECIFICATION:

### A) ALL FUNCTIONAL REQUIREMENTS:

The functional requirements are as follows.

- User Interface: Proper web UI is offered for the user.
- Home Page: Various Services are offered to the customer. All of them are mentioned in the Home Page. Few of them are washing machine repairs, electric repairs and plumbing fixes.
- 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.
- Work Updation: Admin updates the status of work after work completion by the worker.
- Feedback Interface: Providing feedback based on the work satisfaction by the customer and customer pays the service provider after work completion.

## **B) 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 are highly secured and will not be shared to any at any cost.
  - iii) Efficiency – The web application is highly efficient and the efficiency is maintained every time. If any bugs are identified those will be removed by the admin.
  - iv) Portability – Everyone can use the web application as it is portable and the storage required is less.
  - v) Reliability – Correctness is offered at every step. Admin always verifies the product and maintains reliability. If any fraudulent activities are done by the user, admin detects them and blocks the user from using the web application.

## **C) INTERFACES:**

### **User Requirements:**

- Initially the user has to 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 has to enter the Username and password and must login.
- After logging in, Home page is displayed and various problems can be browsed like washing machine repairs and electric fixes.
- The user has to select the appropriate one based on his requirement.

- After clicking on various problems, the user is next page i.e scheduling the appointment. The user has to select the appropriate one based on the availability.
- After appointment scheduling, user can logout from his profile.
- Now comes the job of Admin. Admin logs in with his credentials and views the user's requests. Based on the problems selected by the users, the Admin contacts workers who are available at the scheduled time with and who charges reasonable amounts.
- Admin will have the contact details of all the workers in the nearby location of the user like mail id and mobile number.
- Now the admin sends the worker to the location of the user and the worker solves the issues. After work completion, the worker updates the work to the Admin.
- The Admin updates in the user page as work completed and requests for the feedback from the user.
- The user is navigated to the feedback page and gives feedback. Now money is collected from the user by the worker and is updated to the Admin.
- The Admin moves to the payment page and updates as "paid by the user"

#### **Hardware Requirements:**

Processor : Intel I3 and above  
 RAM : 2 GB and above  
 Hard Disk : 500 GB and above

#### **Software Requirements:**

Operating System : Windows7, 8.0, 8.1, 10, MacOS, Ubuntu, Linux...  
 Browser : Google Chrome, Microsoft Edge, Mozilla Firefox...  
 Development Platform : NetBeans 8.2 IDE with JDK 8.0  
 Database Server : MySQL Server  
 Coding Languages : Python, HTML, CSS, JavaScript

#### **Communication Interfaces:**

HTTP protocol is used for Internet Connectivity.

3. The plan for implementing the project through three development phases. For each

development phase, the corresponding requirements should be identified (need to prioritize functionalities based on their criticality).

### **Development Phases:**

#### **Development Phase 1:**

- UI Home Page
- Data Modeling
- User Registration
- Admin Registration
- User Login
- Admin Login
- Customer Feedback Page

#### **Development Phase 2:**

- Database Customer Details
- Linking
- Schedule Worktime Database
- Assignment of worker and worker database link

#### **Development Phase 3:**

- Risks are Managed without elevating the problem further.
- Fixing Bugs if any faults are identified and fraudulent activities are not encouraged.
- Prior testing is done without any problems. If any problems identified, immediate testing is done.

4. Member contribution table (should describe who wrote what parts of the report). Add more rows as needed.

Member name	Contribution description	Overall Contribution (%)	Note (if applicable)
Pavithra Telukuntla	Project Report	13%	Project Description and Functional Requirements
Anusha Todupunoori	Project Report	13%	Development Phases
Srujana Pamidimukkala	Project Report	13%	System Diagram
Akhila Katkuri	Project Report	13%	System Diagram
Rajashekar Reddy Chirumani	Project Report	12%	Functional Requirements
Vivek Vardhan Gutta	Project Report	12%	Functional Requirements
Anwar Hussain Sheik	Project Report	12%	Developments Phases
Harshit Reddy Nagireddy	Project Report	12%	System Diagram

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