

SOFTWARE REQUIREMENTS SPECIFICATION

(SRS DOCUMENT)

FOR



<KARMVEER - MAKING LIFE SIMPLER>

Version 1.0

BY

**Shaswat singh
Aditya vishnoi
Suman kumar
Nikhil kumar**

Guided by:-Dr. Hitesh Mohapatra.

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Revision History

[illegible]

1.0 Introduction

1.1. Purpose

This document is a Software Requirement Specification(SRS) for the “**KARMVEER**” a Web Based project. This is the initial draft for the SRS and it will be used for the extensions. This document is prepared by following IEEE conventions for software requirement specification.

The purpose of this project is provide an easy-to use web service providing many powerful feature of booking of maids and daily wadges workers online.

1.2. Scope of Project

Now a day, World Wide Web (WWW) is one of the major sources of information and it is expanding day by day. However, it is very challenging for person to find the relevant service online. Therefore is a need of developing this kind of web application which help its users to find specific services like maids and daily wadges worker.

1.3. References

IEEE. *IEEE Std 830-1998 IEEE Recommended Practice for Software Requirements Specifications*. IEEE Computer Society, 1998.

1.4 Overview of Document

The aim of this project is to develop a website named as “**KARMVEER-MAKING LIFE SIMPLER**” that will provide different services at your door step. The available web application will be either subscription based or free.

All services will be available with their categories according to their specific genre like (maid, labour, chef etc). For subscription based services, the user will register him/her on the website and avail the services for a month, 3 month or a year.

There will be an online instant chat box on the website for the guidance of customer.

This online web application will also help in:-

- **Provide services at your door step:** The customer can avail and book slots any time they want.
- **Verified maids and labour:** All the workers are verified by three step verification.
 - ✓ **Tele verification** -The worker register it self by providing basic details along with the otp verification.
 - ✓ **Aadhar card:-** The basic details will tally with the details on aadhar card.
 - ✓ **Bank account details:-** This will help in transfer the funds to the works .

- **Minimize security risks:** By analyzing all the verification step this reduces the risk and become more reliable towards the customer.
- **Enable easy refunds:** This service avails if customer wants to discontinue the services at any point of time they will get the easy refunds after deducting a nominal charges.

2.0 Overall Description

Functional and non-Functional Requirements:

2.1. Functional Requirements:

- Sign up page for new users.
- Sign in page for the facility provided by web application and personal help.
- Only registered users can avail services .
- An instant chat box will be available at home page for help.
- Admin will maintain proper record of available services and customers in database.
- Admin will add the categories of the services.
- Admin will manage all services (add or remove).
- Registered users (customers) can purchase subscription based services by using payment methods (Paypal, Credit card, Debit card).The website will allow the customer to search the services by different filters.

2.2: Non-Functional Requirements:

- **Operating System:**

Web application will be run on all operating systems like Windows XP, Window 7 and others.

- **Usability:**

Usability of web application will be easy so that e-learner can use it without any difficulty.

- **Maintainability:**

Web application would build up in such a way that classifications of errors and maintenance of mechanism become easy.

- **Flexibility:**

Web application would be flexible so that it can easily accept all changes at low cost, time and experience.

- **Security:**

Web application will be secure. No one can use this application without a registered username and password.

- **Reliability:**

The System will support 24 X 7 operations.

- **Performance:**

Authorization will complete within one minute 90% of the time.

Average authorization confirmation time will not exceed 30 seconds.

- **Access:**

Services will accessible over the internet.

2.3 Tools and frame work to be used:

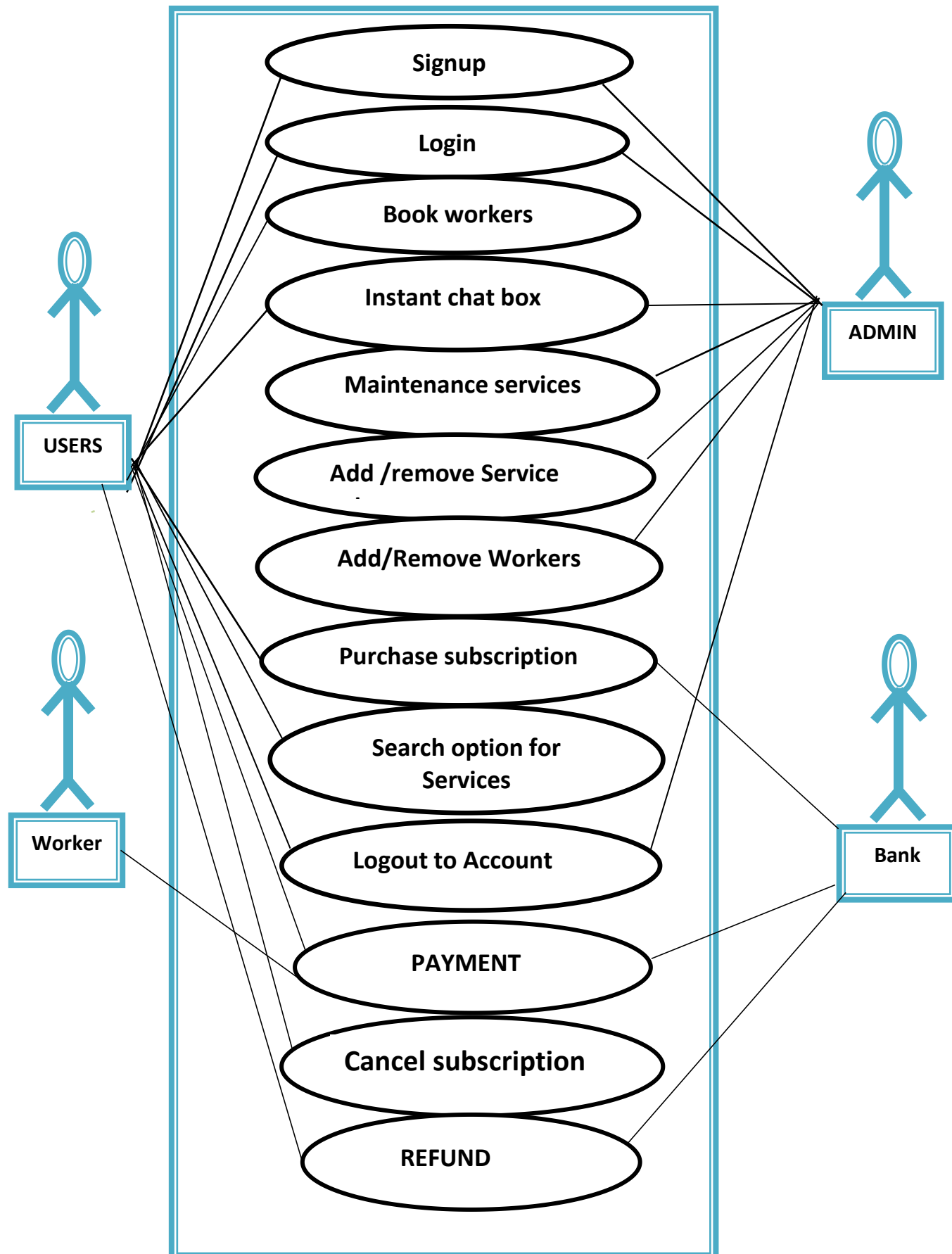
- Operating System: Window 7 and above
- HTML, CSS, Bootstrap, javascript (Front-end)
- MYSQL (Backend)
- Node js
- Mongo DB

3.0. Use Case Diagram

We have two types of users for this application.

User: The user first registers himself after that he can avail the services.

Admin: Admin will maintain the database and register new users and Workers.



4.0.Usage Scenarios:

Use Case Title	Signup
Use Case Id	01
Actors	User, Admin
Description	User/admin can create New account to login to application
Pre Conditions	Web Application should in running condition, Create New Account page should available
Exceptions	None
Post Condition	Action performed successfully
Modification History	1.0
Modification Date	NA

Use Case Title	Login
Use Case Id	02
Actors	Admin, User
Description	Admin, User shall need to login to use the application
Pre Conditions	Application should in running condition. Login page should available
Exceptions	None
Post Condition	Action performed successfully
Modification History	1.0
Modification Date	NA

Use Case Title	Book workers
Use Case Id	03
Actors	User
Description	After registration users can book worker
Pre Conditions	User will registered and request for workers services
Exceptions	None
Post Condition	Action performed successfully

Use Case Title	Instant Chat Box
Use Case Id	04
Actors	User, Admin
Description	An instant chat box will be available at home page for 24/7 help
Pre Conditions	Application should in running condition. Instant chat box should be available
Exceptions	None
Post Condition	Action performed successfully
Modification History	1.0
Modification Date	NA

Use Case Title	Maintenance Services
Use Case Id	05
Actors	Admin
Description	Admin will maintain proper record of available services,workers and customers in database
Pre Conditions	Application should in running condition. Manage services page should available
Exceptions	None
Post Condition	Action performed successfully
Modification History	1.0

Use Case Title	Add /remove Service
Use Case Id	06
Actors	Admin
Description	Admin will add /remove the categories of the services
Pre Conditions	Application should in running condition. View of categories page should available
Exceptions	None
Post Condition	Action performed successfully
Modification History	1.0
Modification Date	NA

Use Case Title	Add/Remove Workers
Use Case Id	07
Actors	admin
Description	Admin will manage all workers details (add or remove)
Pre Conditions	Application should in running condition. View add remove option of application.
Exceptions	None
Post Condition	Action performed successfully
Modification History	1.0
Modification Date	NA

Use Case Title	Purchase subscription
Use Case Id	08
Actors	User
Description	User can purchase subscription
Pre Conditions	Application should in running condition.
Exceptions	None
Post Condition	Action performed successfully
Modification History	1.0

Use Case Title	Logout
Use Case Id	10
Actors	Admin, User
Description	Admin, User can logout to this application
Pre Conditions	Application should in running condition.
Actions	Select the option of logout
Exceptions	None
Post Condition	Action performed successfully
Modification History	1.0
Modification Date	NA

Use Case Title	PAYMENT
Use Case Id	11
Actors	Admin, User
Description	User can pay the fees to the works
Pre Conditions	Application payment portal should in running condition.
Actions	Select the option of payment
Exceptions	None
Post Condition	Action performed successfully
Modification History	1.0
Modification Date	NA

Use Case Title	Cancel subscription
Use Case Id	12
Actors	User
Description	User can cancel taken subscription
Pre Conditions	User has any subscription
Actions	Select the option of cancel subscription.
Exceptions	None
Post Condition	Subscription canceled successfully & refund initiated
Modification History	1.0

5 Adopted Methodology:

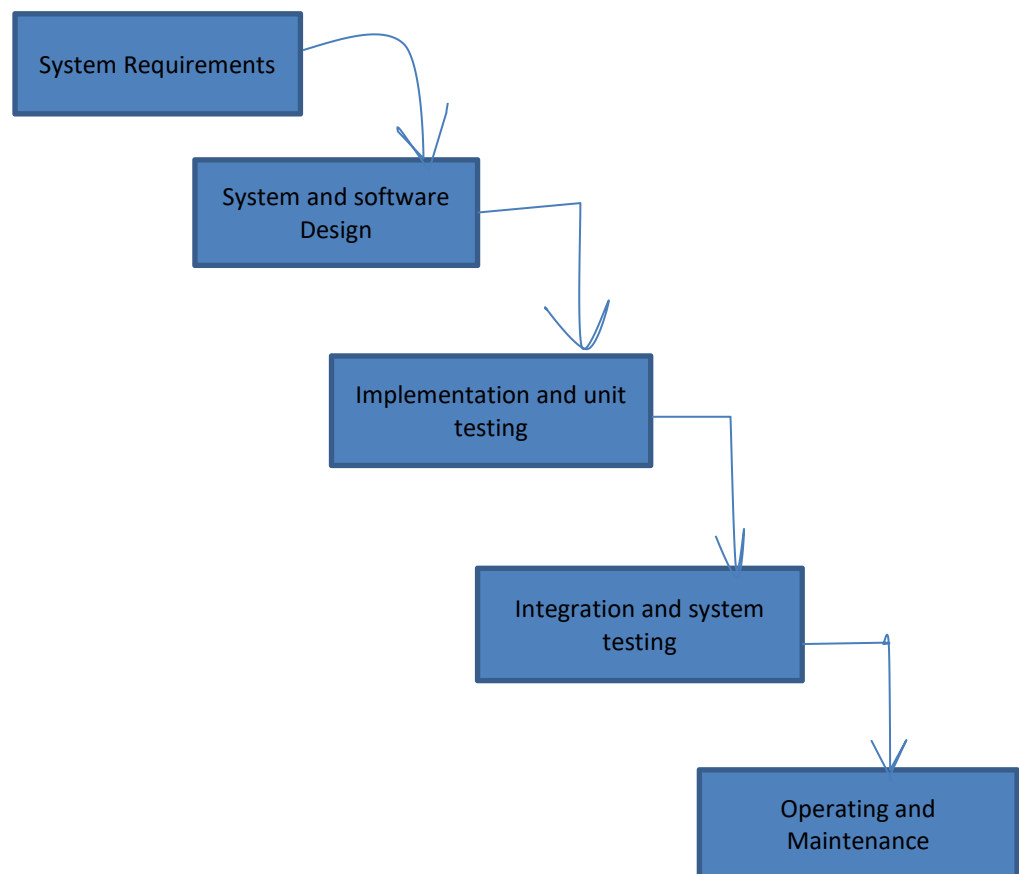
“Methodology is a frame work that is used to structure, plan and control the process of developing an information system”.

Vu process model is a combination of the water fall and spiral model.

5.1 Waterfall Model:

Waterfall model is fast process model to be introduced. This model is also known as linear sequential or classic life cycle model.

This model is depicted in the following diagram.



It consists of five stages:

i. System Requirements:

In this stage, the system services, constraints and goals are established by consultation with system users. It is defined in detail and serves as a system specification.

ii. System and Software Design:

In this stage, we will conceptualize overall system architecture. In design phase involves fundamental system abstraction and their relationships.

iii. Implementation and Unit testing:

In this stage, the software design is realized as a set of programs or a program units. In unit testing we will verify that each unit must meet its specifications.

iv. Integration and system testing:

In this stage, the system individual program units or programs are integrated and tested to the complete system that ensure software requirements have been met. After testing, the software system is developed to the customer.

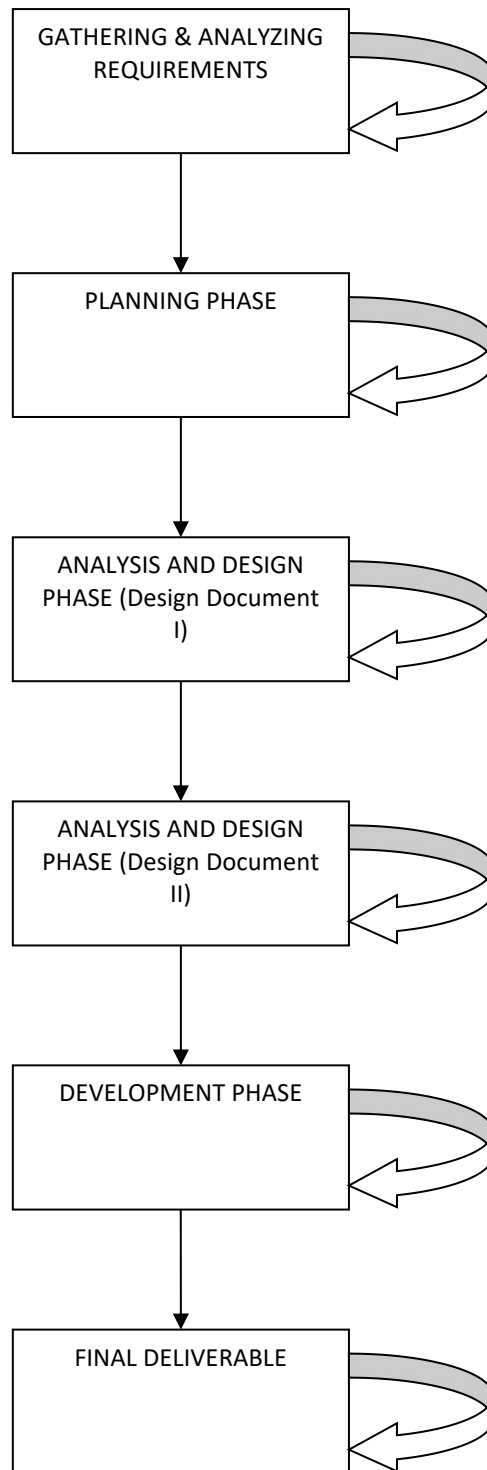
v. Operating and Maintenance:

In this stage, this is the longest phase of software life cycle.

Maintenance means correcting errors which were not discovered in earlier stages of development.

5.2 VU Process Model:

It is the combination of waterfall model and spiral model. It is also called Hybrid approach of system development. It has five phases which are gathering and analyzing requirements, planning, analysis and design, development and implementation. In requirement phase goals, services and constraints are established after discussion with user. It also maximizes the quality of system and minimizes any risks and errors.

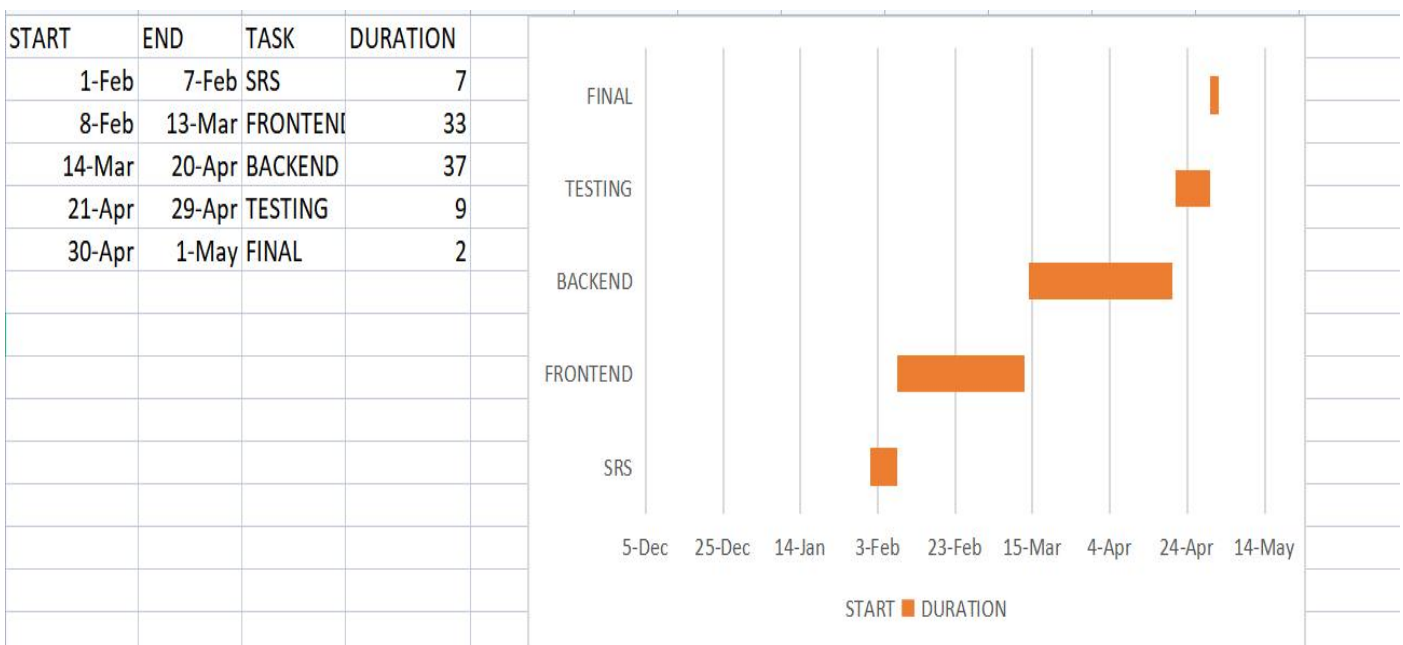


5.3 Reason for choosing vu process Model:

1. The main idea to choose is to get the benefits of both these models.
2. It is sequential model with backward repetition.
3. We want to achieve the linear nature of waterfall and iterative plus risk reduction nature of spiral model.
4. In vu process model we will be work in phases to complete the given project.
5. All the activities are performed in a sequence in VU Process Model.

6. Work Plan/Grant Chart:

The work plan is a document that consulting firms use to organize a project.



THANK YOU