

Project Review 1

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Software Requirement Specification

1. Introduction

a. Purpose

The purpose of developing a web application is to facilitate the frequently travelling people to earn money by delivering a parcel and to provide delivery of the parcel at a cheaper rate than the conventional courier services.

b. Intended Audience

The intended audience for the SRS includes the team members of this project who will be developing the web application , testing the web application , managing the project.Further this could also be referred to by the leadership teams, sales and marketing teams.

c. Intended Use

Different types of stakeholders can use this document to perform their operations.The developers will get an idea of what are the exact functionalities to be implemented in the web application. The testing team will understand the most important parts of the web application and they will make sure that it works well.The sales and marketing teams will have access to the scope of the project which will help them market the product according to the actual features provided. This creates a synergy between all the operating teams and increases the probability of the success of the product.

d. Scope

Our project is applicable to people who travel quite frequently. We are proposing a new system which enables users to deliver their parcels via a traveller who is already visiting the place. This is beneficial for both the traveller and the sender. The sender gets to send his/her parcel at a cheaper rate than the courier services. The traveller gets to earn money while travelling.

The features of the website involve ordering and communicating functionality for the travellers and senders.

The deliverables include a website with login and authentication where travellers can post their prices and their travel details including location, time and date. On the other hand, senders will be able to view the posts and contact the seller to place the order.

e. Definitions and Acronyms

The application that will be developed will not be having user verification in its earlier phases of delivery. User verification involves the registering user to submit his/her documents which will be verified by a backend team and a confirmation will be sent to the user.

At the later stage of delivery of the web application, an agreement will be included in the registering process where in the users registering as a traveller will have to agree to some terms including fee charged on late delivery or misplacing or damaging the parcel. A tracking system will be installed in the web application and the traveller has to agree to give gps access to the website. The user registering as a buyer of travelling services will be given access to the location of the traveller in certain durations of time as approved by the traveller. The buyer has to agree to the intervals provided by the seller.

2. Overall Description

a. User Needs

There will be different types of users who will benefit from this web application. The sellers on this platform will be frequent travellers. Travellers travelling for work or personal reasons will be using this web application. The buyers on this platform will be people willing to transport their parcel to a remote location in the country. These users include parents sending parcels to their children studying in colleges located in remote areas of the country. Another potential buyer will be people willing to send parcels to their family members or friends located in remote areas. Also small business owners who want to extend their business to remote places can use this platform for delivery. The buyer has to specify the approximate weight and dimensions of the parcel to the seller so that the seller can quote a price accordingly.

b. Assumptions and Dependencies

There are some external factors that might affect the delivery of the product. There might be a delay in transportation services. In that case an extension of time duration has to be provided to the traveller on approval of the buyer. This interface will be developed in a later stage of the application.

3. System Features and Requirements

a. Functional Requirements

Travellers :

- i. Travellers can register into the system.
- ii. Travellers can login and logout of the system.

- iii. Travellers can create a post containing the price proposal, start and end locations, date of travel
- iv. Travellers can communicate with the buyers.
- v. Travellers can update the order status on delivery of the parcel.
Buyer:
- vi. Buyers can register into the system
- vii. Buyers can login and logout of the system.
- viii. Buyers can view the posts by the different sellers.
- ix. Buyers can communicate with the buyer and mention their requirements and negotiate prices.
- x. Buyers can mark the order complete on confirmation with the receiver.
- xi. Buyers can also reject the order if not delivered.
- b. External Interface Requirements
 - i. The external interface required to access the web application include a browser application on the mobile and tablet devices. A browser desktop application is required to access the web application on the Laptop or PC.
 - ii. Internet connection is required to access the web application.
- c. System Features
 - i. The system will enable the traveller to post a date and locations.
 - ii. The system will enable the buyer to view the seller posts.
 - iii. The system will enable the travellers and buyers to communicate and negotiate a price.
 - iv. The system will enable the travellers to mark the order delivered.
 - v. The system will enable the buyers to mark the order complete or post a complaint against the traveller for not delivering the order.
- d. Nonfunctional Requirements
 - i. Interface:Easily navigable and User friendly.
 - ii. Portability: Web Application will work in all browsers including android browsers
 - iii. Performance: Functionality will work as intended and the buyer and seller will be able to perform their operations in a structured manner.
 - iv. Security: Passwords will be hashed before getting stored in the database.User will be prompted to set strong passwords
 - v. Safety Requirements: Database will be backed up .On failure the system will not lose data.

Aim

To develop a website for travellers who want to make their travel profitable.

Objective

People can register on the website either as a traveller or a sender.Travellers will have to update the start location and destination whenever they are travelling somewhere. It's on

the user's wish whether or not to update the location. The sender who wants to deliver his/her product to the destination of the traveller then, the traveller will accept the parcel and will be paid according to the distance that he's covering.

Applicability and Scope of the problem identified

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Stakeholders of the project are the people who are travelling frequently and the people who want to send their parcel at a cheaper rate. Our team includes Vedant and Neel.

Process model for the project

We will use the Waterfall V Shaped model for the development of the project. It is a simple and easy to use model. It focuses on testing of all intermediate products. It plans on verifying and validating activities in the early stages of the development process to give out a quality product. The process involved in the development is clearly visible. The tasks are separated and quality and cost control are taken into account.

We cannot use the Incremental model since we cannot divide the development and delivery into increments. We cannot adopt the RAD (Rapid Application Development) Model since we are giving more attention to planning and scheduling than the development tasks. We are not planning to develop the software in a short span of time. The team has less experience with the tools involved in managing the project and programming languages involved in developing the software. There is no user interaction until the deployment of the project.

We cannot use the prototyping model since we have identified the requirements of the project like the inputs and desired outputs for our system. We cannot use the Spiral model since it is totally risk based and we plan to focus on requirements and develop the project accordingly. We cannot use the Concurrent development model since our system requirements are predefined and are not going to evolve over the period of time of project development.

Justification

The suitable model for our project is Waterfall V shaped model. It comprises the following stages. Requirement Analysis, System Design, Object Design, Coding, Unit Testing, System Testing, Acceptance Testing.

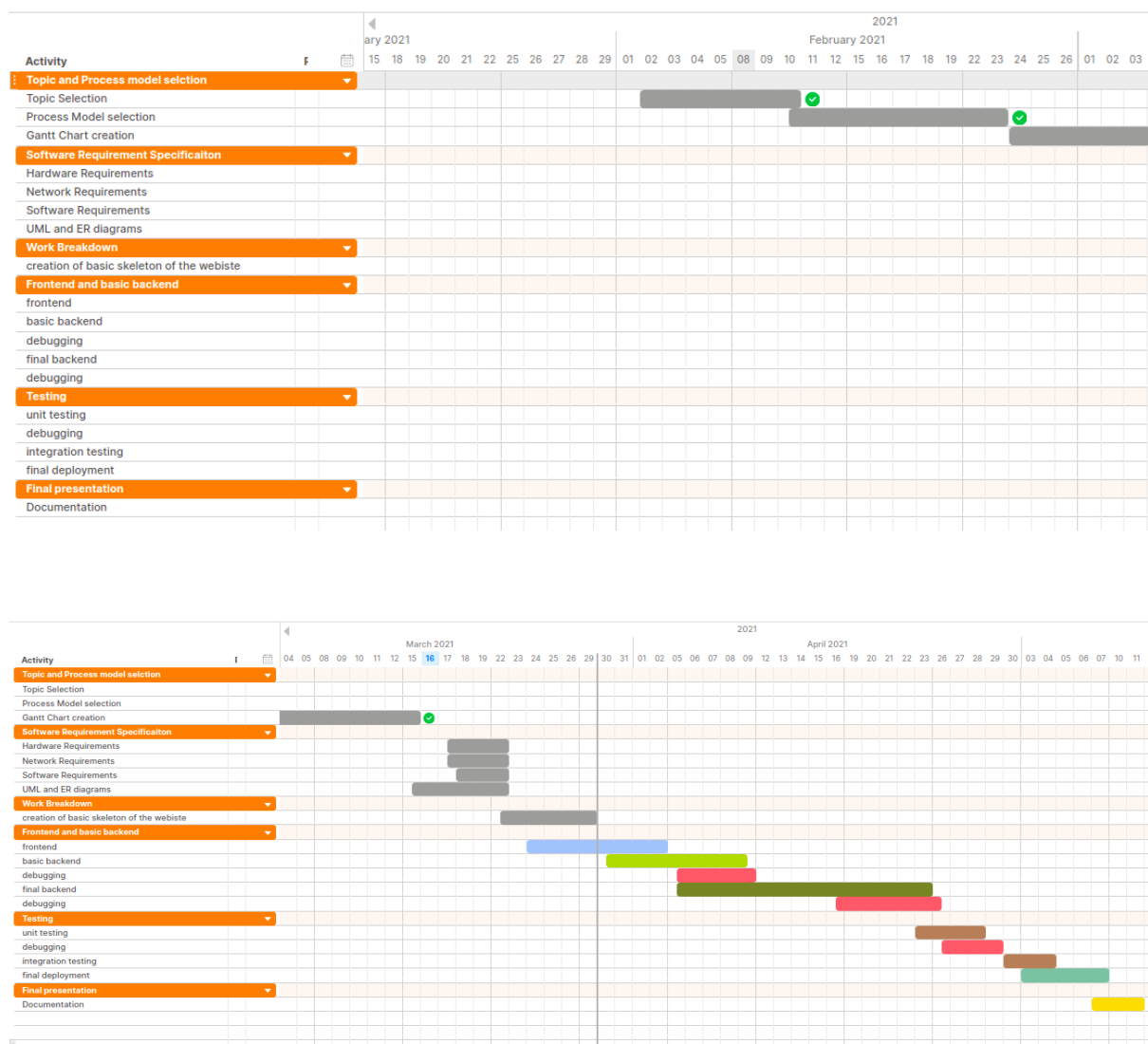
We have chosen the waterfall model since our requirements are easily understandable and defined. The requirements for the project are not going to change quite often over the time. They are defined in the early cycle. They don't indicate the complexity of the system.

We are choosing the V shaped waterfall model since our team has moderate experience on similar types of projects. Our team has less experience with the tools involved in managing projects and programming languages used to develop the project.

We are choosing a V shaped waterfall model since the participation of users is minimal in all phases of development. User does not have previous experience of participation and the users are not experts of the problem domain.

Our project is in a new domain and its model is not generic so we will not be enhancing a system built prior to this. The funding for the project is stable .There are no reliability requirements. The project will not be built under a tight schedule. There are no reusable components used in the project. There is also no scarcity of time , cost or people.

Gantt Chart



Travel Money

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Motivation

Many a times, we encounter situations where we have to transfer some goods from our place to some other place. This situation occurs often times when parents need to transfer something to their child living in hostel. There is the courier service for such situations but its drawbacks are:

1. Expensive
2. Time consuming

In such situations, we often seek for some person who's traveling to the destination where we need the product to be transferred. No one is willing to perform this transport for unknown people because they think of it as slavery (unpaid work without gratitude). To overcome this, we decided to create a platform where people who are travelling to destinations can earn money while they travel by transporting goods of other people in exchange of money. This way people can earn some extra amount and still be free from the bounds of necessary travel. It is up to the traveller whether to take up the task of transport or not.

So, we are giving them a way to earn money as they travel. By abandoning the expensive courier services.

Abstract(Summary of the proposed work)

- People will have to register themselves on a website.
- They will have to update the start location and destination whenever they are travelling somewhere. It's on the user's wish whether or not to update the location.
- If any person wants to deliver their product to the destination of the traveller then, the traveller will accept the parcel and will be paid according to the distance that he's covering.

Stakeholders

- The project team members
- Users travelling frequently
- Users willing to deliver their parcel faster to places where conventional courier services charge extra.

List the functionalities of different end users

- Traveller:
 - Login
 - Can update the start and end locations
 - Can negotiate the cost.
 - Enters the estimated time
- Person in need to transport the product:
 - Login
 - View the start and end locations updated by traveller
 - Negotiate the cost.
 - Places the order

Novelty from our side in the project

- There are various applications and website available for travel bookings.
- Although there are very few websites for courier service. In most cases the customers have to go to a nearby courier station to send their parcel.
- Our website combines both the terminologies and provides an interface for the travellers to earn money and gives convenience to customers.
- We will make the platform easy to use for both the users. We will also try to provide maximum functionalities to the users to facilitate effective communication between the users.
- This will be profitable for both the users.

Issues of Existing System

- There are many places in India where the courier services cannot provide fast delivery services.
- Users have to pay extra charges for faster delivery
- Users also have to pay extra to deliver delicate parcels

Further Improvements

- The person carrying the package will be tracked and the location will be sent to the receiver and the sender at certain amount of time intervals.
- The time duration of the intervals will be decided by the traveller before hand.
- The person carrying the package will have to agree to give location access before registering as a traveller.
- The time duration of the interval will be shown to the receiver during the placement of the order. The sender and receiver should agree to the terms of the traveller before placement of the order.
- An agreement will be signed by the user and the traveller while registering the app. It will state that on the loss of the parcel or on late delivery by the traveller except for genuine reasons such as delay in flights or trains , the cost paid by the user will be returned to him/her and the traveller will be charged with a penalty fee.

References

- Courier Service . Wefast.<https://wefast.in/>
- Travel Service . Yatra.<https://www.yatra.com/>