REQUREMENTS DOCUMENT FOR THE SEND_IT APP

Table of contents:

1.SEND-IT overview

SendIT is a courier service that helps users deliver parcels to different destinations. SendIT provides courier quotes based on weight categories.

Justification for development

Feasibility:

- First, the project is technically feasible as we have a good number of skilled developers, testers and analysts who will be working to ensure its sucess.

- The project is also financially feasible since is budget has been reviewed and found to be very reasonable

-Technologically, the project is also feasible since the required technology is within reach and its only a matter of implementing it using the availabe and

able technical team

Vision

The send-it app should have the following features:

It should:

1. Allow users to create an account and log in.
2. Allow users to create a parcel delivery order.
3. Allow users to change the destination of a parcel delivery order.
4. Allow users to cancel a parcel delivery order.
5.Allow users to see the details of a delivery order.
6. Allow the admin to change the **status** and **present location** of a parcel delivery order.

Some other optional features include:

1. The application should display a Google Map with Markers showing the **pickup location** and the **destination**.
2. The application should display a Google Map with a line connecting both Markers (**pickup location** and the **destination**).
3. The application should display a Google Map with computed travel distance and journey duration between the **pickup location** and the **destination**.
4. The user gets real-time email notification when Admin changes the **status** of their parcel.
5. The user gets real-time email notification when Admin changes the **present location** their parcel.

Audience

The target audience of the app is anyone who intends to send parcels
User needs and stories

The website's users include:

- Registered Members.
- New members

- The admin

User stories

Case 1: New user
The user should easily access the app from any device and website. On loading the app,the user should find what they are looking for in terms of buttons and their areas of interest.They should be able to create an account and register as new members if they want to.

Case 2: Registered Members

The registered users upon verification should be able to log in to their accounts effectively with short or no delays.

Case 3: Administrative users

The admin(s) should have access to all the information in the site. They should also have the ability to post new updates or delete outdated events

2.Teams

- the app will be built on an individual basis. Each individual on the jitu cohort 3 will attempts to implement the required features as well as the addition features.

Requirement gathering

rundown of the requirements(software):

1.Sitemap(Rough paper sketch)

2.Wireframes(Rough paper sketch)

3.Front-end(HTML,CSS,React js)

4.Backend(Express-js)

5.Database(Mssql)

6.Postman)

7.Hosting platform(available)

Building Process

The send- it app will be built in two phases.

1.The first phase will be building of the backend.It should be connected to a database and should have the following endpoints which translate to the functionalities below:

GET /parcels	Fetch all parcel delivery orders
GET /parcels/<parcelId>	Fetch a specific parcel delivery order
GET /users/<userId>/parcels	Fetch all parcel delivery orders by a specific user
PUT /parcels/<parcelId>/cancel	Cancel the specific parcel delivery order
POST /parcels POST/user POST/id	Create a parcel delivery order Register user Login user

2.The next phase will be the front-end development afterwhich the two will be combined.

3.Design

This section will cover what is expected of the send-it design.

Style guide

All the app themes , colors ,fonts or anything pertaining to style will be subject to the individual developer.

RESPONSIVENESS:

A responsive design adapts the web-page layout to the viewing environment by using techniques such as fluid proportion-based grids, flexible images, and CSS3 media queries.
The aim is to make the app render well on a variety of devices and windows /screens sizes from minimum to maximum display size to ensure usability and satisfaction

ACCESSIBILITY:

Ensures the app content is available, and it can be operated by literally anyone

.WCAG guidelines state that for optimum accessibility, the content must be:

-Perceivable -users must receive information and user interface components in ways that they can perceive, such as providing text alternatives for graphical and other content with no text

-Operable -User interface components and navigation must be operable. An example is making all functionality available from a keyboard

-Understandable -The information on the user interface must be understandable. The user should be able to figure out how to use the interface easily, think ease of setting the language, a clear focus elements on each page, and navigation consistency

-Robust -Content must be robust enough, so a wide variety of user agents, including assistive technology, can interpret it.

4.Browser Support

The Send-it app should work on the different browsers such as Chrome, Internet-explorer and Safari. That said, the developers will have to test the app in each of the popular web browsers that users use to browse. Here the developer will be testing for bugs and also aim to improve overall user experience.

5.Hosting

After production, the most suitable hosting platform for the app will be decided upon.Heroku free hosting is preferred but feel free to use any platform of choice.

Security:

The app should be designed in a manner that discourages or is immune to the following basic attacks.

- Cross-Site Scripting- This basically refers to when users unknowingly /attackers knowingly load and refresh insecure scripts meant to collect their data.
- Brute force attacks- In basic terms, brute force attacks refers to when hackers constantly try to force their way in a website by trying out a

combination of login details and this can cause an overload in the website, causing it to be slower.

- SQL injections- This vulnerability occurs as a result of improper database connecttion configs.

6.Assumptions

This section will outline everything that needs to be done for the website. The assumptions include:

i. Hosting

The following are the expectations for hosting the website:

- The server used will be reliable and secure- Using weak and unstable servers may push the site offline, therefore the server used should be reliable yet relatively cheap.
- The server used will offer live support to clients-The server should be effective and speedy in providing support for technical problems.
- Relatively cheap to maintain- The server used should not be too expensive to use and maintain

ii. Search Engine Optimization

Proper SEO techniques will be utilized during deployment of the app.

iii. Design and Layout.

There will be a dominant theme on the site.Any theme changes will be communicated in good time

7.Milestones

1.Desing backend endpoints(2 days)

2.Test backend functionality(Postman)(1 day)

3.Connect backend to database(1day)

4.Test backend connection to database(Postman)(1 day)

5. Design the front-end(2 days)

6.Test front-end functionality(Developer debugging)(1 day)

7.Connnect front-end to backend(1day)

8.Conduct final intergration test(1 day)

9.Document lessons learnt(1 day)

10.Deployment(2 days)

8.Budget:

The project's entire budget will primarily arise from hosting that is if hosting will be included.

9.Deadlines:

The send-it app is set to be built in 14 days.

PS.

The project's gantt and pert charts are being developed and will be provided upon completion.