

Software Engineering Basics:

1. Project Requirements:

Features:

- Signing in to register.
- If the user already has an account add up a login system.
- Showing the users the available buses.
- Daily pick and drop service.
- Filling Bus form to reserve a seat.
- Getting location on maps.
- Accessing history.
- Contacting owners.
- Sending feedback.

Functionalities:

The website will include a sign-in and sign-up option when accessed and when the user signs in/sign up on the website, he will be shown the website's main (home) page. He can go to the “about” option and then learn about the bus service and sign himself up to reserve his seat on the bus. The total number of seats on the bus is 29 and he can reserve his seat whenever he wants and check the prices of the buses. He will give different offers of the rates along with the condition of the bus. The user will be able to send feedback or report if he faces any faults in the service. He will choose his destination and then reserve his seat; moreover, he will contact the team for further inquiries.

Some features are given below:

- i. **Homepage.**
- ii. **Schedules and routes.**
- iii. **Rates.**
- iv. **Booking and reserving a seat.**
- v. **User Account.**

Constraints:

- A user may face a bus leaving if they are not at the specified stop on time.
- Not getting seats due to some technical issues.
- Not being able to access the map if the website gets down.
- Data security problems.
- Page loading time.

2. Create User Stories:

- As a student, I want to take advantage of the service to reach school on time daily.
- As a parent, I want to track my child's location so I can make sure that he/she reaches safely.
- As a worker, I want to reach my workspace on time so I can do my work quickly.
- As a customer, I want to give feedback and reviews about the bus so they can resolve the issues.
- As a user, I want to receive updates on changes in bus schedules so I can arrange my time accordingly.
- As a customer, I want to reserve my seat online so I can secure my seat.