**Milestone-1**

**Topic: Simulating operations of a Toll Plaza management**

**Users:**

1. **Guest**
2. **Driver**
3. **Toll & payment collector employee**
4. **Bridge Maintenance Office**
5. **Administrator's Office**

**for all users:**

1. Login (using username, password and category)

2. Forget password (reset the password following some verification steps).

3. Logout (returns to the home page).

**Workflow: -**

e1) First there will be a home page with fields: Username, Password and Category. The user needs to fill in the fields and press login(button). If the information matches with the listed by the company, then it takes to the UI of that user, else it will give an error message.

e2) If the user forgets or wants to reset the password, the user needs to click on forget password(button) which will take to another UI where there will be fields: Email, Username, mobile number. The user needs to fill in the information and press okay(button), it goes to another UI where there are fields: pin, new password, confirm password. If the information (Email, Username, mobile number) matchers with the company database then the application will autogenerate a code and send it to the user’s email, using the pin from the email the user will reset the password if the pin matchers with the autogenerated pin. After filling the details (pin, new password and confirm password) there will be a reset(button) clicking on it will take the user to the home window of the application.

e3) If the user wants to logout there will be a logout(button), by clicking on it will take the user to the login UI of the application.

**Guest**

**Workflow: -**

**A. Bridge History**

e1) Click Bridge History button

e2) There are much information about Bridge History, Bridge Event Activities.

e3) click back button

**B. Complain Box**

e1) Click complain button

e2) If there is a broken or hole or any complain about bridge then take picture and write

e3) Then click submit button

**C. Apply for Job**

e1) Select job type

e2) then it shows requirement of selected job

e3) Give requirement document of selected job in input field

e4) Then click submit button

**D. Photo Gallery**

e1) Click photo button

e2) User able to see and download the photo

e3) Click back button

**E. Bridge tour and ticket**

e1) Click tour and ticket button

e2) then select online payment method (bikash/rocket/nagad) or cash payment

e3) if user choose online payment, then give online payment number in input field

e4) then click submit button

**Driver**

**Workflow: -**

**A. Toll of any vehicle**

e1) Click toll button

e2) See all the information about toll

e3) Click back button

**B. Online Payment**

e1) Click online payment button

e2) then select online payment method (bikash/rocket/nagad)

e3) Enter vehicle license number and model number

e4) then click submit button

**C. Parking requests**

e1) click for Parking button

e2) then give vehicle license number and model number

e3) enter time period

e4) click submit button

e5) if any space available then give space area name else give a error message.

**D.** **Emergency bridge crossing request**

e1) Click Emergency crossing button

e2) Then give vehicle license number and model number

e3) select emergency (VIP, Ambulance, Military Forces)

e4) click submit button

**E. Total trips**

e1) click trips button

e2) can see how many trips user make

e3) click back button

**Toll & payment collector employee**

**Workflow: -**

**A. EV charging cash**

e1) click EV button

e2) Then give vehicle license number and model number

e3) select time period of charging

e4) click submit button

e5) click print button for cash memo

**B. Cash Payment**

e1) click cash payment button

e2) enter Vehicle license number

e3) input cash amount according to the vehicles

e4) click submit button

e5) click print button for cash memo

**C. Slow signal to high-speed vehicle**

e1) Click high-speed vehicle button

e2) if any vehicle came in overspeed then click high-speed button for give laser signal to vehicle if the car still does not slow down then call bridge police

e3) click back button

**D. overloaded / restricted vehicle**

e1) Click restriction button

e2) IF any overloaded vehicle or any restrictions vehicle came then select (overload / vehicle restrictions)

e3) Write short message and give them legal notice

e4) Click submit button

e5) print the notice

**E. Close bridge in case of emergency**

e1) Click Emergency close button

e2) select what kind emergency ( cyclone, earthquake , accident, bridge maintenance, VIP)

e3) sand an short message maintenance office about selected reason.

e4) click submit button

**Bridge Maintenance Office**

**Workflow: -**

**A. Traffic management**

e1) click traffic button

e2) select lane will select that will close so click select line (L1, L2,L3,L4,L5, L6, Emergency lane)

e3) Write a short message.

E4) click submit button

**B. Accept parking requests**

e1) check If any space available then chick accept, and write available area name else reject.

e2) click back button

**C. Bridge event**

e1) click Bridge event

e2) write what kind of event in text area

e3) set time and date

e4) click print for print out all things about event

e5) Click submit button

**D. Accept Emergency bridge crossing**

e1) evaluate the selected field

e2) click accept button else reject.

**E. Close bridge in case of emergency**

e1) Click Emergency close button

e2) select what kind emergency ( cyclone, earthquake , accident, bridge maintenance, VIP)

e3) sand an short message maintenance office about selected reason.

e4) click submit button

**Administrator's Office**

**Workflow: -**

**A. Can give official news**

e1) Click Official news button

e2) write news in text area

e3) click submit button

**B. Can give job circular**

e1) click job button

e2) attached job circular photo and document

e3) click submit button

**C. Monthly and yearly report on how much toll collect**

e1) Click monthly or yearly report.

e2) it show a list of how much amount collect in a month or year

e3) click back button

**D. Employees salary**

e1) click employee salary button

e2) select employee (Maintenance Office, Toll & payment collector)

e3) select employee name and post

e4) input their account number

e5) select amount of salary

e6) click submit

**E. Close bridge in case of emergency**

e1) Click Emergency close button

e2) select what kind emergency ( cyclone, earthquake , accident, bridge maintenance, VIP)

e3) sand an short message maintenance office about selected reason.

e4) click submit button