

## Description for sign up

User role

User

Precondition  
Sign up

Super Admin, ~~child~~ Admin

At Super Admins  
can create

~~child~~ admin,

specify role and

permissions of

each. These

~~child~~ admins are

then responsible

for creating user  
accounts (bus

staff or students)

~~child~~ Admin must

have access to

bus system and

permissions to

create new users.

Pre condition

A new user is

created with

specific roles

and permissions

to operate

written in the bus

system

Yatrai ke vekhi kaise hain  
Point of Classification Page No. 16 (Report))

~~Point of Classification Page No. 16 (Report))~~

~~Point of Classification Page No. 16 (Report))~~

Description of signing,  
User eid

Signin

Authorized User

Authorized users

Description

Login has  
system. Access  
is denied if the  
user doesn't have  
a user account or  
proper credentials.

User must have an  
account and credentials.

Post condition

User logs into his  
system or is denied  
access

## Description of Buses and route

usecase Id

Name

Actors

Description

03  
Buses management

Admin , Driver

Admin adds buses  
Driver record new buses

for assigned buses. Admin adds  
sets territory ranges and  
removes buses or routes  
can manage buses or routes  
Admin must be authenticated  
and have permission to  
manage buses.

Precondition

Post condition

In case of failure  
System displays appropriate  
error messages and logs the  
error

Admin successfully  
manages buses, territory  
and territories. Driver  
successfully records

Description of Journey Management

usecase Id

Name

Actors

Description

04  
Journey management  
Driver, Admin , Student

Driver can initiate and ends  
new journeys while authenticating  
student bus cards during the  
journey. System records journey  
related data, also tracks the  
live location of bus, allowing  
admin and student to access  
journey details and bus live  
location

### Pre-condition

Driver must be authenticated  
and must have specified the route  
and the date he is driving.  
Student must have valid bus  
cards.

### Post-condition

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Driver successfully initiates and  
ends the journey  
system tracks and updates the  
details of the journey and  
live location of bus, allowing  
Admin and students to access  
journey details and live location  
data.

In case of failure system  
displays appropriate error messages  
and logs the error.

In case of invalid or unreadable  
bus cards system displays error  
and does not marks the student  
as boarded  
if system gets offline admin  
or student cannot access journey  
data.

## Description for bus card management :

Use case Id	05
Use case name	Bus card management
Actors	Admin
Description	Admin manages student bus cards

### Pre-condition

Admin must have been authenticated and have sufficient permissions to manage bus cards. Students must be registered in the system.

### Post-condition

#### Success:

Admin successfully assigns bus card to student, can revoke a bus card preventing its further use and can enable ~~the~~ disable card, testing its functionality.

#### Failure:

In case of failure system displays appropriate error messages and logs the error.

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Description for Session and Student management
Use case id

Use case name	Session and Student management
Actors	Admin, System
Description	Admin create and ends sessions,

set session expiry and manage students with in a session.  
on each student record addition the system automatically generates app credentials for students

~~Expiring~~ Expiring or deleting a session disable all bus cards dedicated to that session

Pre-condition: Admin must have been authenticated and have appropriate permissions to manage sessions and students.  
Student data must be valid and complete for credentials generation.

Post-condition: Admin successfully manages sessions and students  
System automatically generate app credentials for each newly added student and links them to the session

Failure:

If a student data is incomplete app credentials are not generated and admin is prompted to correct the data  
In case of failure system displays error messages and once the error

**Description for Bus Staff management**

Usecase id

Staff management

Name

Bus Staff system

Actors

Admin , System

Description Admin manages drivers and convolts in the system

Pre-condition When new staff data is

added System automatically generates app credentials for each entity.

Post-condition Admin must have valid credentials and sufficient permissions to manage bus staff

Staff data must be complete and valid

Post-condition Admin successfully manages bus staff and system automatically generates app credentials for each added staff member

Failure:

In case of failure system displays appropriate error messages and logs the error

**Description for Complaint management**

Usecase id

Complaint management

Name

Student , Driver

Description Student and driver submit complaints about the bus

Service of selected issues  
Admin reviews and resolve these  
complaints.

Pre-condition User must  
be authenticated

Post-condition Site Complaints submitted by  
Students and drivers get  
successfully reviewed and  
resolved by the admin  
Failure:

In case of failure system  
displays appropriate error  
messages and logs the error

Description for Announcement management  
Request id

Name Announcement management  
Admin, driver, Student

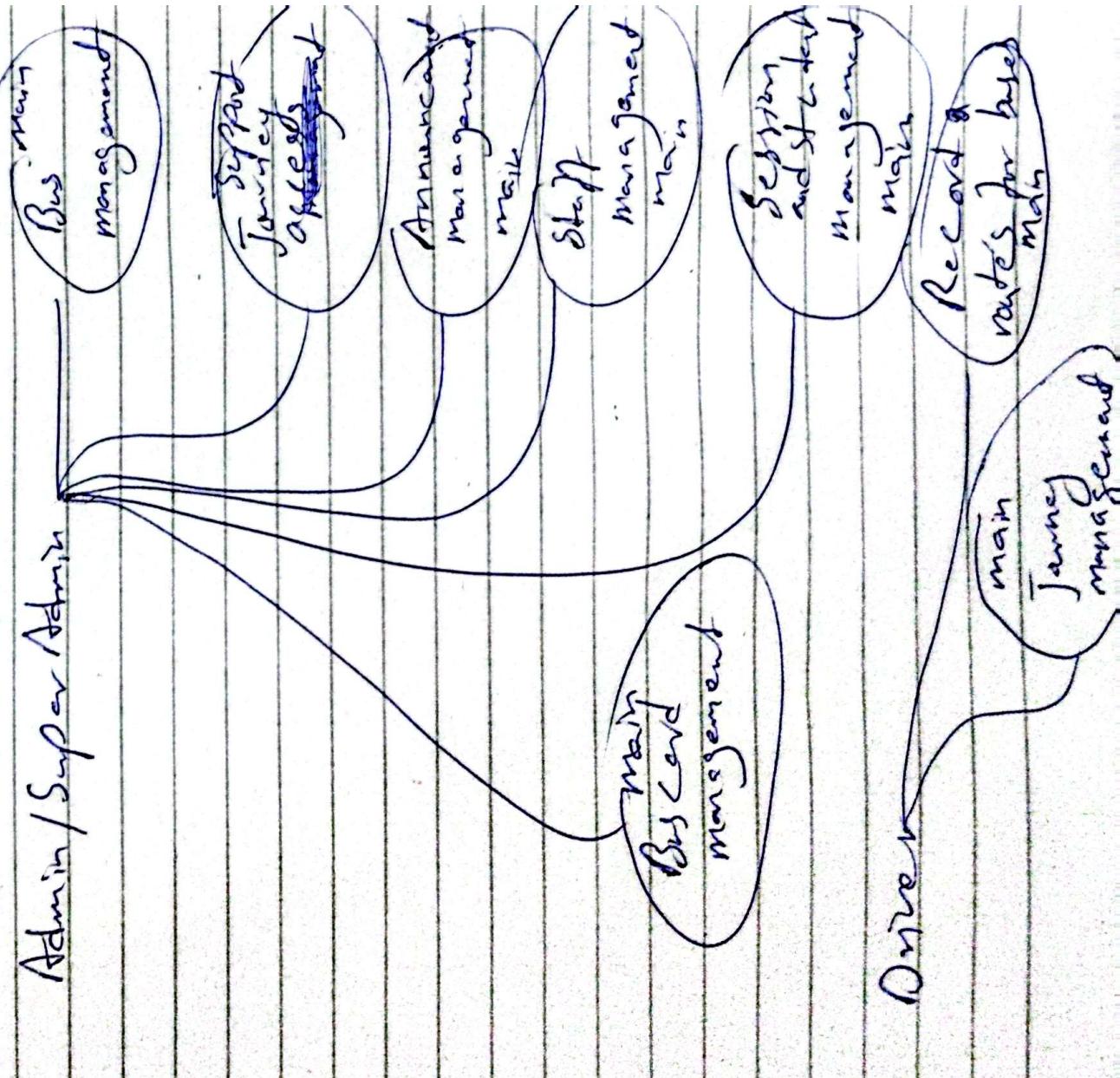
Description Admin manages announcements  
related to bus services  
Schedules or other important  
updates  
Driver and students get  
notified through their respective  
apps.

Pre-condition Admin must be  
authenticated and have  
sufficient permission to make  
announcements  
Post-condition All other users must have  
valid app credentials to  
receive notifications

post-condition Admin successfully publishes and manages announcements  
Failure!

In case of failure System displays appropriate error messages, does the error and does not publishes the announcement

Use case of overall system



Standard

