

KSRTC SERVICES

Group Number : 11

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ABSTRACT

This Project makes KSRTC services in more easy way in which customer can check the buses to his route and book a ticket by creating an account in it. Customer can easily cancel the ticket before chart is prepared. Customer can edit their profile anytime. Customer can give the feedback about any issues regarding this. Admin adds the all technical and non-technical staffs. Technical staff views the data of buses, drivers, conductors to schedule the bus trips. Technical staff can Assigns buses to respective routes and assign conductors and drivers to it. Admin checks the schedule created by technical staff. Admin and technical staff can get travelled information at any time.

Keywords: Book Tickets , Travelled info, passenger info.

Functional Requirements of the System:

1. User need to register with the system before using the application.
2. User want to login to the system to access his/her home page.
3. Customer can view personal details etc.
4. Customer can book or cancel their tickets
5. Customer can find their buses to their respective destinations
6. Admin can add employee details
7. Technical Employee can schedule their buses

Use cases

- 1) Sign Up
- 2) Login
- 3) Home Page
- 4) Edit Profile
- 5) Book Ticket
- 6) Payment
- 7) My Booking
- 8) Cancel ticket
- 9) Log Out

Actors

1. **User:** user is any person who has registered with the system using a valid Username and password.
2. **Customer:**
 - Check the bus routes and chooses the bus
 - Select the seat and book a ticket
 - Can cancel a ticket on or before 24 hrs
 - Can see travelled history
3. **Admin:**
 - To add or delete employee details

- To review the bus schedule
- Grant leave for employees.

4. **Technical Employee**

- Creates Schedules for buses to their halts.
- Allot drivers and conductors to buses
- Checks the availability of seats and confirm the ticket booking.

Use Case Description

User Case ID	Sign Up
Brief description	The new user should register for KSRTC Services
Primary Actors	New User
Precondition	The Age limit should be greater than 18
Post Condition	
Main Success Scenario	On Successful registration account was created
Actor Action	System Response
Click the Signup button	Display the Profile Screen
Click the Save Button	Save the user's Profile

Use case ID	Login
Brief description	The user can get access to the system using username and password.
Primary actors	User
Precondition	User must register with the system and should have a valid login credentials.
Post condition	Already not a registered user, register with the system or perform transactions if login attempt was successful.
Main success Scenario	If valid user, then display welcome message and give access to his/her account else return error message.

Actor Action	System Response
1. The user enters login credentials and clicks on login button.	2. Performs validation of login credentials. If valid user, provides access.
3. The user get access into the account main page.	
Alternate flow	
	2a. If not a valid user, system returns error message.
User Case ID	Home Page
Brief description	Displays the Home Page of Respective User
Primary Actors	User
Precondition	User Must Login With Their Respective Login Credentials
Post Condition	It will Navigate to their desire choice
Main Success Scenario	It will Navigate to their desire choice

User Case ID	Edit Profile
Brief description	Displays a Screen that contains user profile and allow user to change their profile
Primary Actors	Customer
Precondition	
Post Condition	Saves the Edited Profile
Main Success Scenario	To Edit User Profile
Actor Action	System Response
1.On Clicking the Edit Button	Displays user profile to Edit it.
2. On Changing the Details	It will Enables the Save Button
3.On Clicking the save Button	Save the Edited Profile

User Case ID	Book Ticket
Brief description	Enable the User to Book a Ticket

Primary Actors	Customer
Precondition	
Post Condition	The Booking Ticket is Confirmed
Main Success Scenario	To Book a ticket
Actor Action	System Response
1.On clicking Book Ticket	Displays a screen to enter From and To Places
2.On Clicking the Find Buses	Displays the Buses to Select
3.On Selecting the Bus	It will Shows the Available Seats
4.On Selecting the Bus seat	It will ask to enter the Passenger Details
5.On Clicking the Payment	It Will Navigate to Payment Options

User Case ID	Payment
Brief description	Enables the user to Complete the transaction
Primary Actors	Customer
Precondition	
Post Condition	Payment Is Confirmed
Main Success Scenario	To Pay For the Bus Ticket
Actor Action	System Response
1.Enter The U.P.I ID	Check whether the U.P.I ID valid or not
2.On Clicking the pay button	Send a Request, On Successful Payment it will display the bus ticket and Print Button
Alternate Flow	
	2.a The amount is not debited payment not failed

User Case ID	My Booking
Brief description	Shows the Book Tickets
Primary Actors	Customer
Precondition	
Post Condition	Show the Booked Tickets
Main Success Scenario	To print or cancel the Booked Tickets

Use case ID	Cancel Ticket
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Brief description	To cancel a booked ticket
Primary actors	Customer
Precondition	Chart Should Not be Prepared
Post condition	cancel a ticket
Main success Scenario	Ticket Cancelation
Actor Action	System Action
On Clicking cancel button	Ticket is canceled
Alternate Flow	If the ticket is not cancel at the poirier of time it will shows the error message

User Case ID	Log Out
Brief description	To Logout the account
Primary Actors	User
Precondition	Should login to the account
Post Condition	Displays a screen to Login
Main Success Scenario	Logout successfully

Use case ID	Add Employee
Brief description	To add technical and non-technical staff to the database.
Primary actors	Admin
Precondition	Should have an Admin account and login to its respective login credentials.
Post condition	Staff is added
Main success Scenario	To maintain and check the employees
Actor Action	System Action
On clicking Add Employee button	Display a screen to enter Employees details
Click the save button	Saves the employees details.

Use case ID	Delete Employee
Brief description	To delete technical and non-technical staff from the database.
Primary actors	Admin
Precondition	Staff should contain in our database.
Post condition	Staff can be removed
Main success Scenario	To remove staff from database
Actor Action	System Action
On clicking Delete Employee button	Shows a screen to enter some details like staff id or name of the staff to be deleted.
On clicking confirm	Particular employee is deleted

Use case ID	Add bus
Brief description	To add buses to the database.
Primary actors	Admin
Precondition	Should have an Admin account and login to its respective login credentials.
Post condition	Bus is added
Main success Scenario	To maintain and check the bus details
Actor Action	System Action
On clicking Add Employee button	Display a screen to enter bus details
Click the save button	Saves the bus details.

Use case ID	View schedule
Brief description	Allow admin to view schedule of that day
Primary actors	Admin
Precondition	Schedule must be prepared
Post condition	Display the Schedule on the screen
Main success Scenario	To view the schedule database
Actor Action	System Action
On clicking View schedule button	Display the schedule on the screen
	Details like Bus number or name, engine id of the bus to be deleted.
On clicking confirm	Particular bus is deleted

Use case ID	View Data
Brief description	Allow technical employee to view the data of buses, drivers and conductors
Primary actors	Technical Employee
Precondition	Admin should add buses, drivers and conductors
Post Condition	Display the list of buses, drivers and conductors
Main Success Scenario	To view the list
Actor Action	System action
On clicking View data	Display the list of buses drivers and conductors

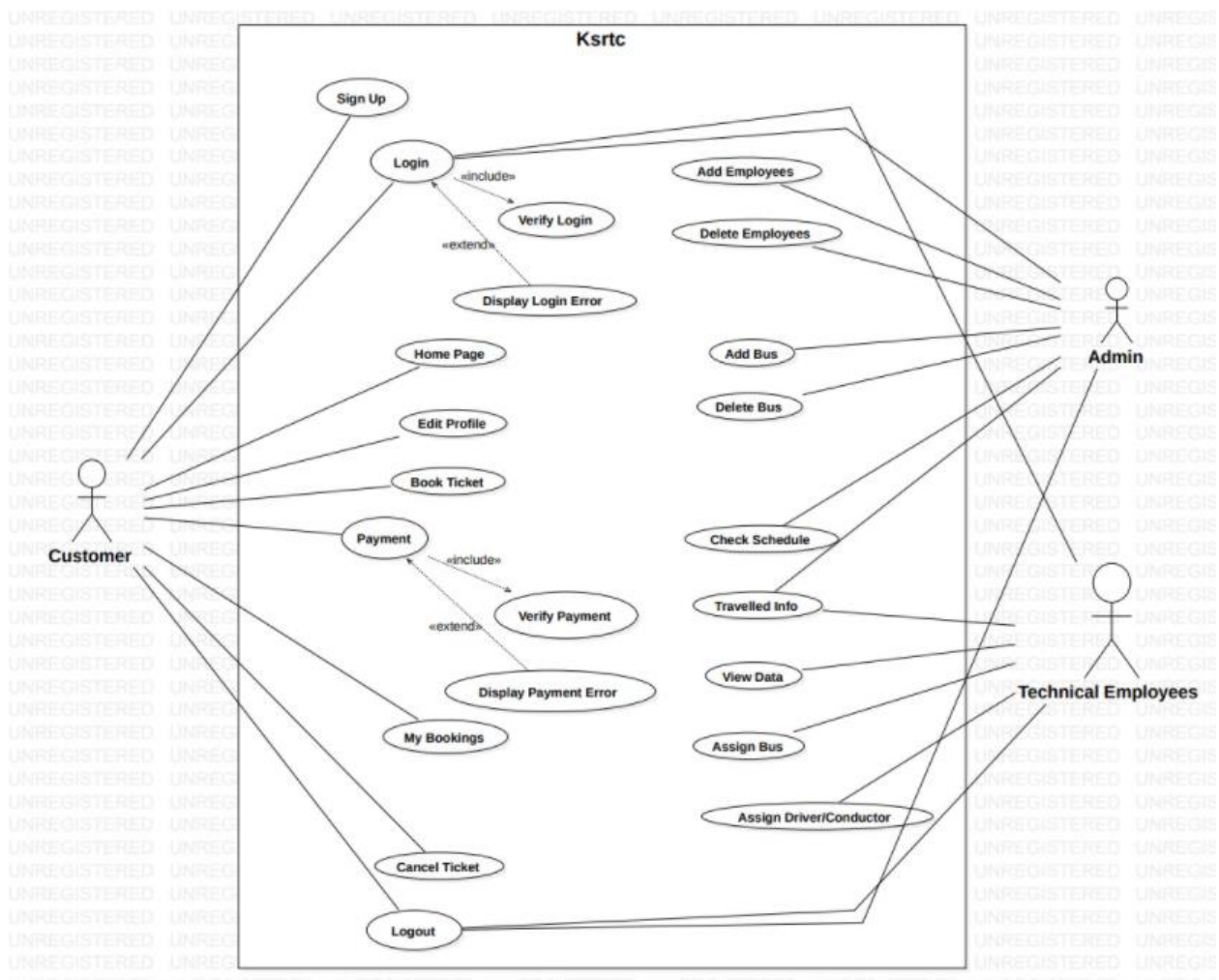
Use case ID	Assign bus
Brief description	Allow technical employee to assign the bus to the particular route
Primary actors	Technical Employee
Precondition	Admin should add buses, drivers and conductors
Post Condition	Assigns a bus for the trip
Main Success Scenario	To assign a bus to the particular route
Actor Action	System Action
On clicking Assign bus	Display the screen that asks for respective data about the route and bus
On clicking assign button	Bus is assigned to the route

Use case ID	Assign Driver
Brief description	Allow technical employee to assign the driver
Primary actors	Technical Employee
Precondition	Admin should add drivers and assigning bus should be completed
Post Condition	Assigns a driver for the trip
Main Success Scenario	To assign the driver
Actor Action	System action
On clicking assign driver	Display the screen to enter driver id and bus id
On clicking assign button	Driver is assigned

Use case ID	Assign Conductor
Brief description	Allow technical employee to assign the Conductor
Primary actors	Technical Employee
Precondition	Admin should add conductor and assigning bus should be completed
Post Condition	Assigns a conductor for the trip
Main Success Scenario	To assign the conductor
Actor Action	System action
On clicking assign conductor	Display the screen to enter conductor id and bus id
On clicking assign button	Conductor is assigned

Use case ID	Travelled Info
Brief description	Allow admin and technical employee to see past travel history
Primary actors	Admin, Technical Employee
Precondition	Admin and technical employee can see travelled history
Post Condition	Display travelled history
Main Success Scenario	To get travelled history
Actor Action	System action
On clicking travelled info	Display the screen that contains travelled info of passengers

Use case Diagram



User Interface Design

A hand-drawn user interface design for a login form. The form is enclosed in a rectangular border. At the top center is the title "Login". Below the title are two input fields. The first is labeled "User Name :-" and contains the text "rishi". The second is labeled "Password :-" and contains five "x" characters. Below these fields is a button labeled "Login". At the bottom of the form is the text "New user sign-up?".

Login

User Name :- rishi

Password :- xxxxx

Login

New user sign-up?

User Name :-

Password :-

First Name :-

Last Name :-

Gender ☐ male ☐ Female

ph No :-

Home Page

username :-

password :-

First Name :-

Last Name :-

Gender ☐ male ☐ Female

Mail :-

Age :-

photo :-

Search for Buses

From

To

Date

Click on seat to select

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Available ☐ selected ☐ Booked ☐

Passenger details

Name :-

ph.no :-

Emailid :-

Gender ☐ Male ☐ Female

My bookings

Ticket No	From-To	Bus No

Home page for Admin

Add Employee

Delete Employee

Modify Employee

Add Bus

Delete Bus

Modify Bus

Check schedule

Traveling Info

Add Employee

Emp id :-

Name :-

Gender :- ☐ male ☐ female

Age :-

PH.No :-

Address :-

Delete Employee

Emp. id :-

Add Bus

Bus Id :-

Bus type :-

No. of seats :-

Delete BUS

Bus id :-

View Schedule							
Busid	Driver id	Conductor id	From	to	Half Place	From time	to time

Technical Employee's
Home Page

View Data

Assign Bus

Assign Driver

Assign Conductor

Travelled info

Log Out

View Data		
Drivers list	conductor list	Buses list

Assign Bus

Bus ID :-

From :-

TO :-

Via :-

FromTime :-

To Time :-

Assign Driver

Bus id :

Driver id :

Assign Conductor

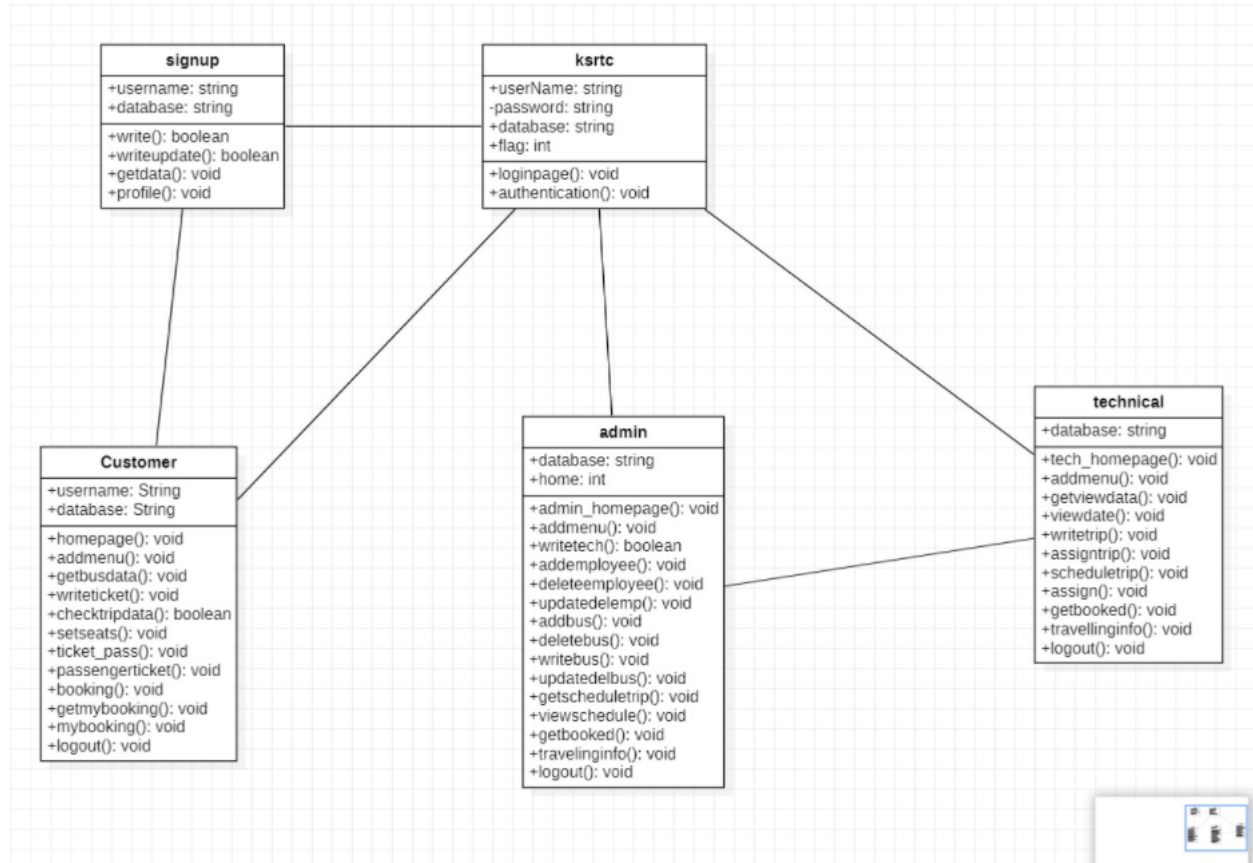
Bus id :

Conductor id :

Assign

Travelling info					
Passenger Name	Pass ph no	Bus ID	From to where	From time	where Time

Class Diagram:



User Interface:



Sign Up



username

Password

Confirm Pas...

firstname

lastname

gender

☐

Male

☐

Female

E-mail


Date of Birth

...

age

phone no

Sign Up

 Login

username

Charan

Password

.....

login

newuser

Sign up



Home Page



Menu

Edit Profile

Book Ticket

My Booking

Log Out



Edit Pofile



username

asdfg

Password

...

Confirm Pas...

321

firstname

liuhgf

lastname

lkjhgv

gender



Male



Female

E-mail

sdfghjk

Date of Birth

...

age

66

phone no

1234512345

Save



Menu


Search for Buses

From

To

Date

Search

— □ ×

Passenger's Details:

Name:

sai

ph no:

9898767654

Email.id:

abcdef@gmail.com

gender

☒ Male ☐ Female

Available se...

6 ▼

Submit

Menu

Ticket No	Bus No	From	To	Date	Seat no
tic-0	busid-0	guntur	hyderabad	2022-01-01	3
tic-1	busid-0	guntur	hyderabad	2022-01-01	5
tic-2	busid-0	guntur	hyderabad	2022-01-01	7
tic-3	busid-0	guntur	hyderabad	2022-01-01	2
tic-4	busid-0	guntur	hyderabad	2022-01-01	1
tic-5	busid-0	hyderabad	guntur	2022-01-01	16
tic-6	busid-0	hyderabad	guntur	2022-01-01	12
tic-7	busid-0	hyderabad	guntur	2022-01-01	12
tic-8	busid-0	guntur	hyderabad	2022-01-01	14
tic-9	busid-0	hyderabad	guntur	2022-01-01	



Admin



Menu

Add Employee

Delete Employee

Add Bus

Delete Bus

Check Schedule

Travel Info

Logout



Add Employee



Menu

Emp type

Name

gender

☐

Male

☐

Female

age

phone no

Submit



Delete Employee



Menu

Emp id

Delete



Add Bus



Menu

Bus id

Bus Type

Amount

Submit



Delete Bus




Menu

Bus id

Delete

Passenger Name	Passenger PH No	Bus No	From	To	Date
asdf	jhgf	busid-0	guntur	hyderabad	2022-01-01
asdf	lkjhg	busid-0	guntur	hyderabad	2022-01-01
dfgh	iuhg	busid-0	hyderabad	guntur	2022-01-01
dfgh	iuhg	busid-0	hyderabad	guntur	2022-01-01
		busid-0	guntur	hyderabad	2022-01-01
		busid-0	hyderabad	guntur	2022-01-01
asdfg	kjhg	busid-0	hyderabad	guntur	2022-01-01
sai	9898767654	busid-0	hyderabad	guntur	2022-01-01

 Login

username

tech-4

Password

.....

login

newuser

Sign up



Technical Employee



Menu

View Data

Assign Bus

Assign

Travelled Info

Logout



View Data



Menu

Drivers

driver-0
driv-1
driv-2
driv-3
driv-4

Conductors

conductor-0
cond-1
cond-2
cond-3

Buses

busid-0
Bus1
busid-2
busid-4
busid-3

Trips

Trip-1
Trip-2
trip-2
trip-3
trip-4
trip-5
trip-6



Assign Trip



Menu

Departure

Arrival

Departure Time

Arrival Time

Date of joun...

...

Assign...



Assign Trip



Menu

Bus Id

Driver Id

Conductor Id

Trip Id

Assign