

Administrator Management : IT22167378

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The module, which the member is working on

In our Cab Service Management System, “Administrator Management” function Develop an intuitive and secure system for administrators to view, update, and delete customer and driver accounts within the platform. Implement a role assignment mechanism allowing administrators to assign specific user roles, distinguishing between customers and drivers. Create a comprehensive reporting system for administrators to analyze and monitor various aspects of the system, ensuring transparency and informed decision-making. Provide administrators with tools to efficiently respond to customer inquiries and address concerns promptly.

The completion level of the features

- Backend CRUD routes
- Frontend and Backend Validations
- Some frontend UIs
- Pushed completed works to the branch

Work not completed and to be completed by the final

Work in progress	To be completed
Create system user	Access login page
View / Retrieve system user	Report generating
Update system user	Administrator UIs
Delete system user	Access monthly analysis
Administrator dashboard	Calculate salaries

SQL queries used

```
[
{
  "_id": "662025e40a88a732815d27e2",
  "Emp_ID": "E001",
  "name": "Nimal",
  "password": "nimal123",
  "phone_number": 713113796,
  "address": "Rahula Road matara",
  "Emp_Type": "Advertisement Manager",
  "__v": 0
},
{
  "_id": "662026050a88a732815d27e4",
  "Emp_ID": "E002",
  "name": "kamal",
  "password": "kamal23",
  "phone_number": 713113796,
  "address": "Rahula Road matara",
  "Emp_Type": "Payment Manager",
  "__v": 0
},
{
  "_id": "662026300a88a732815d27e6",
  "Emp_ID": "E003",
  "name": "sunil",
  "password": "kamal23",
  "phone_number": 713113796,
```

```
    "address": "Rahula Road matara",  
    "Emp_Type": "Inventory Manager",  
    "__v": 0  
  }  
]
```

```
const { Schema, model } = require('mongoose');  
  
const mongoose = require('mongoose');  
  
const Shema = mongoose.Schema;  
  
//definning attributes  
const SysUserSchema = new Schema({  
  
  Emp_ID:{  
    type : String,  
    required : true  
  },  
  
  name:{  
    type : String,  
    required :true  
  },  
  
  password:{  
    type : String,  
    required : true  
  },  
  
  phone_number:{  
    type: Number,  
    required: true  
  },  
  
  address:{  
    type : String,  
    required : true  
  },  
  
  Emp_Type:{
```

```
    type : String,  
    required: true  
  }  
  
  })  
  
const systemusers = mongoose.model("systemusers",SysUserSchema);  
  
module.exports = systemusers;
```

Algorithms, flow chart, pseudocode

Algorithm

Step 1: Start

Step 2: Input login credentials

Step 3: Validate the credentials:

a. If the credentials are valid:

-Display "Login Successful"

-Proceed to step 4

b. If the credentials are not valid:

-Display "Invalid Username or Password"

-Back to step 2

Step 4: Display Administrator Dashboard

Step 5: Click "Create system user" and Fill the form

Step 6: Click "Create" button

a. If Successful:

-Display "System user Added"

b. If submission failed:

-Proceed to Step 6

Step 7: View added system users

Step 8: Update added system users

a. If Successful:

-Display "System user Updated"

b. If update failed:

-Proceed to Step 8

Step 9: Click "Calculate Salaries"

Step 10: Fill calculate salary form and submit

a. If Successful:

-automatically calculate salary and display it

b. If failed:

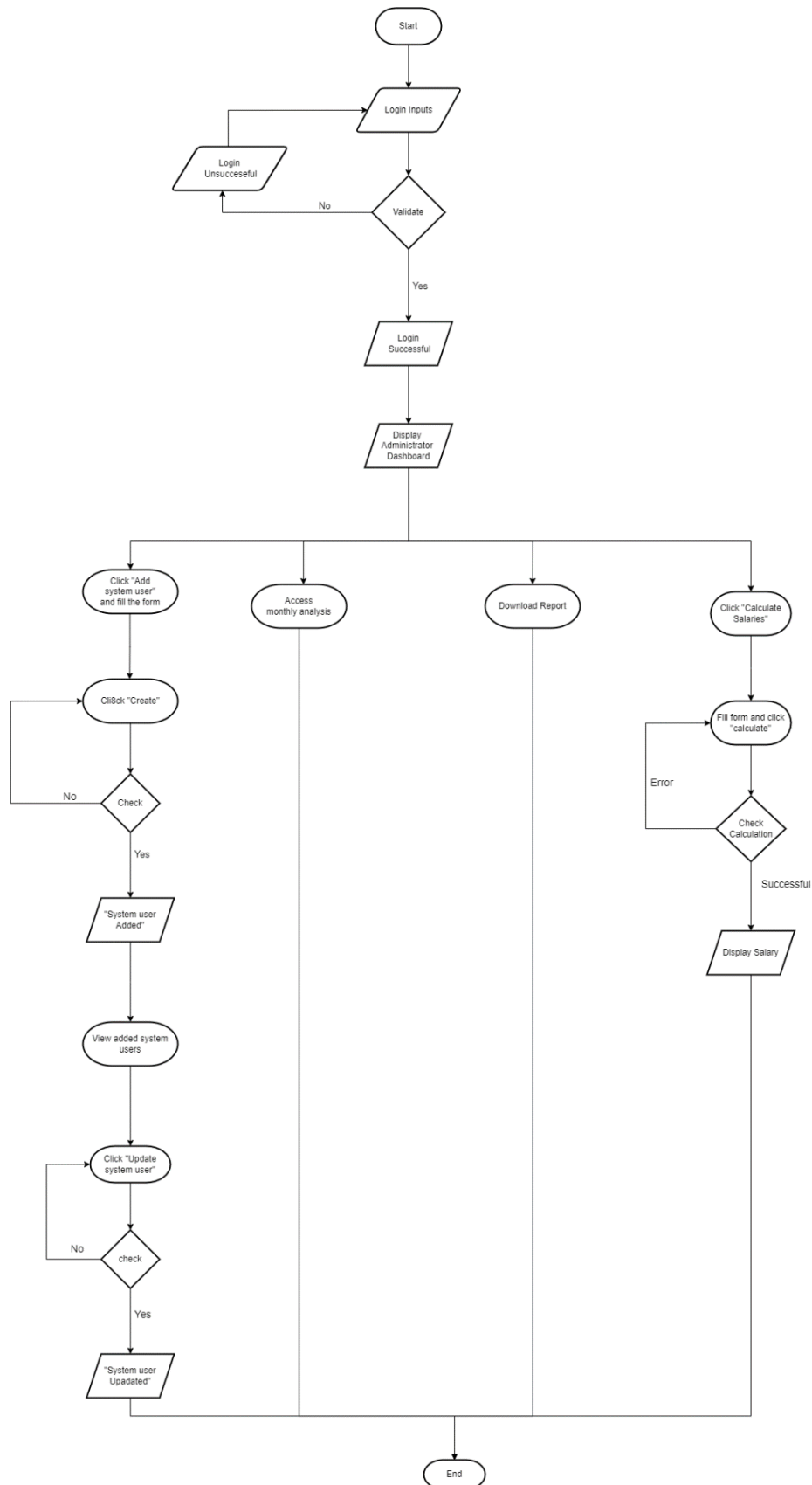
-Proceed to Step 9

Step 11: Access monthly analysis

Step 12: Download administrator statistic report

Step 13: End

Flow Chart



Pseudocode

Start

Input login credentials

Validate the credentials:

 If the credentials are valid:

 Display "Login Successful"

 Proceed to Administrator Dashboard

 If the credentials are not valid:

 Display "Invalid Username or Password"

 Retry login

Administrator Dashboard:

Click "Create system user" and Fill the form

Click "Create" button

 If successful:

 Display "System user Added"

 If submission failed:

 Retry submission

View added system users

Update added system users

 If successful:

 Display "System user Updated"

 If update failed:

 Retry update

Click "Calculate Salaries"

Fill calculate salary form and submit

 If successful:

 Automatically calculate salary and display it

 If failed:

 Retry calculation

Access monthly analysis

Download administrator statistic report

End