# UML DIAGRAMS & TABLE DESIGN – MOBILE REPAIR MANAGEMENT

Submitted by:

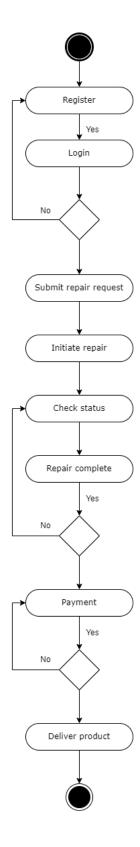
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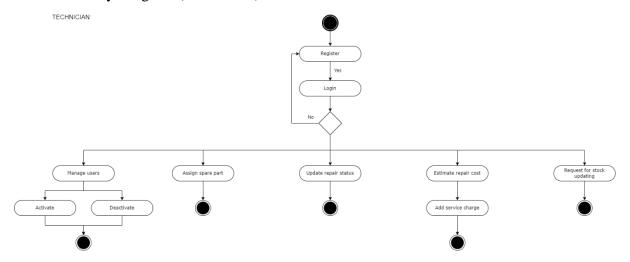
## **UML DIAGRAMS**

• Activity Diagram (User)

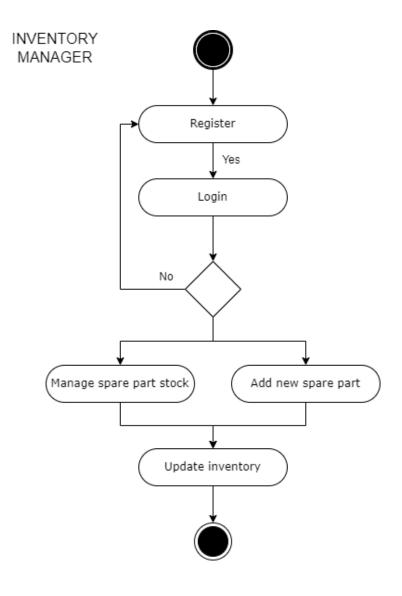
USER:



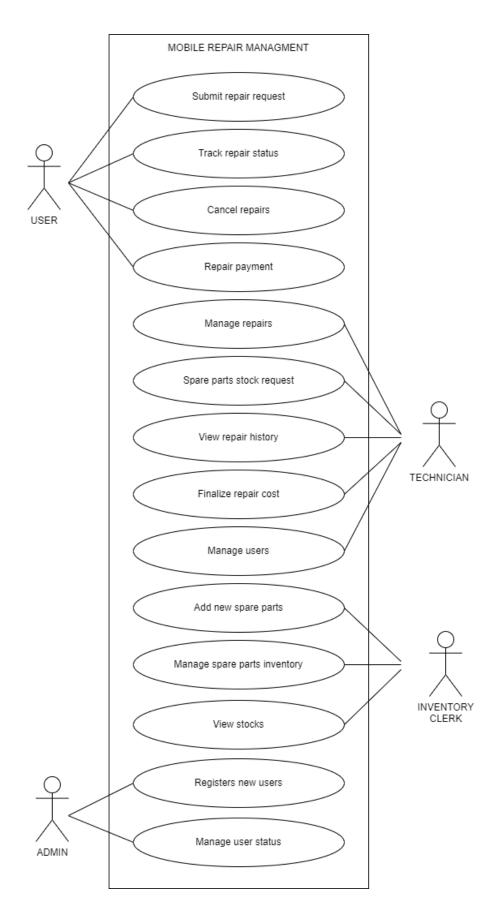
#### • Activity Diagram (Technician)



#### • Activity Diagram (Inventory Manager)



#### • Use Case Diagram



# • Class Diagram

| User                  | Technician           | Inventory Manager      | Admin            |
|-----------------------|----------------------|------------------------|------------------|
| Name string           | Name string          | Name string            | Name string      |
| Email string          | Email string         | Email string           | Email string     |
| Phone int             | Phone int            | Phone int              | Phone int        |
| Password string       | Password string      | Password string        | Password string  |
| login()               | login()              | login()                | login()          |
| register()            | register()           | register()             | register()       |
| updatePassword()      | updatePassword()     | updatePassword()       | updatePassword() |
| submitRepairRequest() | updateRepairStatus() | updateStockInventory() | manageUsers()    |
| trackRepairStatus()   | assignSpare()        | addNewSpareStock()     | addNewUsers()    |
| payment()             | addRepairCost()      |                        |                  |
| deleteRepairRequest() | requestStockUpdate() |                        |                  |
|                       | manageUsers()        |                        |                  |

## **TABLE DESIGN**

• tbl\_user: To store user registration information.

| Fieldname | Datatype | Size | Description     |
|-----------|----------|------|-----------------|
| id        | integer  | 11   | Primary key     |
| name      | varchar  | 20   | Name of user    |
| email     | varchar  | 20   | Email of user   |
| phone     | bigint   | 10   | Phone number of |
|           |          |      | user            |
| password  | varchar  | 1000 | Password        |
| status    | integer  | 1    | Status          |

• tbl\_spares: To store spare parts details.

| Fieldname   | Datatype | Size | Description          |
|-------------|----------|------|----------------------|
| id          | integer  | 11   | Primary key          |
| category    | varchar  | 20   | Name of repair       |
|             |          |      | category             |
| brand       | varchar  | 30   | Mobile brand name    |
| model       | varchar  | 30   | Mobile model name    |
| price       | integer  | 11   | Price of the spare   |
| quantity    | integer  | 11   | Stocked spare count  |
| requirement | integer  | 11   | Required spare count |
| status      | integer  | 1    | State                |

• tbl\_repairdetails: To store repair infromations.

| Fieldname      | Datatype | Size | Description           |
|----------------|----------|------|-----------------------|
| id             | integer  | 11   | Primary key           |
| username       | varchar  | 20   | Name of user          |
| useremail      | varchar  | 20   | Email of user         |
| userphone      | bigint   | 10   | Phone number of       |
|                |          |      | user                  |
| repairtype     | varchar  | 1000 | Password              |
| brand          | integer  | 1    | Mobile phone brand    |
| model          | varchar  | 20   | Mobile phone          |
|                |          |      | mobile                |
| spare          | varchar  | 200  | ID of spare part used |
| imei           | bigint   | 20   | Mobile IMEI number    |
| rate           | integer  | 10   | Repair cost           |
| payment_status | integer  | 11   | Status of payment     |
| addressline1   | varchar  | 50   | Address line 1        |
| addressline2   | varchar  | 50   | Address line 2        |
| city           | varchar  | 20   | Name of city          |

| state   | varchar | 20 | Name of State   |
|---------|---------|----|-----------------|
| zip     | integer | 10 | Zip code        |
| country | varchar | 20 | Name of country |
| date    | varchar | 50 | Drop date       |
| rstate  | integer | 1  | Repair state    |
| state   | integer | 1  | State           |