1. Identify the proper end points for each service
2. Identify the input data ( request json data )
3. Identify the response ( response json data )
4. Identify the right exceptions
5. Error codes to return
6. Database design
7. Use Case diagrams

|  |  |
| --- | --- |
| **Discussions**   * Entities   + User   + Bank Accounts   + Plans   + Transactions   + Offers   **Customer**Service  **Root path** - /MobRechargeApp/v1  **User Service**   | **Service** | **Request** | **Api Endpoints** | **Success Status Code** | **Payload** | | --- | --- | --- | --- | --- | | Should perform signup | POST | /users/signup | 201 | firstName(String)  lastName(String)  password(String)  email(String)  mobileNumber(Integer)  birthDate(Date)  gender(enum)  isAdmin(bool) | | Should perform Login  (customer/admin) | POST | /users/login | 200 | password(String)  email(String) | | Should update profile | PUT | /users/{id} | 200 | firstName(String)  lastName(String)  password(String)  email(String)  mobileNumber(Integer)  birthDate(Date)  gender(enum) | | Should logout | GET | /users/logout/{userId} | 200 |  | | Get the list of bankAccounts of the customer | GET | /users/bankAccounts/{userId} | 200 |  | | Delete customer | DEL | /users/{id} | 204 |  | | Get the list of all customers  (admin privilege) | GET | /users | 200 |  | | Get the list of all plans  (Already availed plans) | GET | /users/plans/{userId/} | 200 |  |   **Payment Service:**   | **Service** | **Request** | **API Endpoint** | **Success Status Code** | **Payload** | | --- | --- | --- | --- | --- | | Make payment | POST | /users/transactions | 201 | amount(float)  date(Date)  Status(enum)  *userId (FK) User*  *planId (FK) plan*  modeOfPayment (enum) | | Transactions History | GET | /users/transactions/{userId} | 200 |  | | Get the transaction details  (particular transaction) | GET | /users/transactions/{id} | 200 |  |   **Plans Service:**   | **Service** | **Request** | **API Endpoint** | **Success Status Code** | **Payload** | | --- | --- | --- | --- | --- | | Should display all the plans | GET | /plan | 200 |  | | Update an plan  (need admin privilege) | PUT | /plan/{id} | 200 |  | | Delete an plan  (admin privilege) | DEL | /plan/{id} | 204 |  | | Get a specific plan | GET | /plan/{id} | 200 |  | | Add a new plan  (need admin privilege) | POST | /plan | 201 | Price (float)  Validity (Integer)  Sms (Integer)  callMinutes (integer)  data (float)  offers |   **Offers Service:**   | **Service** | **Request** | **API Endpoint** | **Success Status Code** | **Payload** | | --- | --- | --- | --- | --- | | Should display all the offers | GET | /offer | 200 |  | | Update an offer  (admin privilege) | PUT | /offer/{id} | 200 |  | | Delete an offer  (admin privilege) | DEL | /offer/{id} | 204 |  | | Get a specific offer | GET | /offers/{id} | 200 |  | | Add a new offer  (admin privilege) | POST | /offers | 201 | **id(Integer) (PK)**  discount(float)  MinAmount (float)  MaxAmount(float) | |  |

**Bank Account Service**

| **Service** | **Request** | **API Endpoint** | **Success Status Code** | **Payload** |
| --- | --- | --- | --- | --- |
| Add a new Bank Account | POST | /BankAccounts | 201 | bankName(String)  accountHolder(String)  accountNumber(String)  *userId(FK) User* |
| Delete an existing Bank Account | DEL | /BankAccounts/{id} | 204 |  |
| Get Bank Account by Id | GET | /BankAccounts/{id} | 200 |  |
| Get all Bank Accounts | GET | /BankAccounts | 200 |  |
| Update a bank account | PUT | /BankAccounts/{id} | 200 |  |

Databases

**User**

**id(Integer) (PK)**

firstName(String)

lastName(String)

password(String)

email(String)

mobileNumber(Integer)

birthDate(Date)

gender(enum)

createdAt(Date)

updatedAt(Date)

isAdmin(boolean)

**Bank Account**

**id(Integer) (PK)**

bankName(String)

accountHolder(String)

accountNumber(String)

*userId(FK) User*

createdAt(Date)

updatedAt(Date)

**Transaction**

**id(Integer) (PK)**

amount(float)

date(Date)

Status(enum)

*userId (FK) User*

*planId (FK) plan*

modeOfPayment (enum)

createdAt(Date)

updatedAt(Date)

**Plan**

**Id (integer) (PK)**

Price (float)

Validity (Integer)

Sms (Integer)

callMinutes (integer)

data (float)

createdAt(Date)

updatedAt(Date)

offerId(Integer)

**Offer**

**id(Integer) (PK)**

discount(float)

MinAmount (float)

MaxAmount(float)

createdAt(Date)

updatedAt(Date)