

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

CustomerService

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) <i>userId (FK) User</i> <i>planId (FK) plan</i> 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
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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)
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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) <i>userId(FK) User</i>
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)