Institute for Advanced Computing and Software Development

Project Presentation on

"E-Banking"

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Submitted By :

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Project Guide

Introduction

Objective:

- The E-banking is for Bank web application is intended to provide complete solutions for Bank Users.

- Users can browse through the Portal and access them online without visiting the Bank physically.

Scope:

- This personalize banking portal will allows the users to access banking services 24x7.

- Everything will be available sitting at any comfortable place instantly.

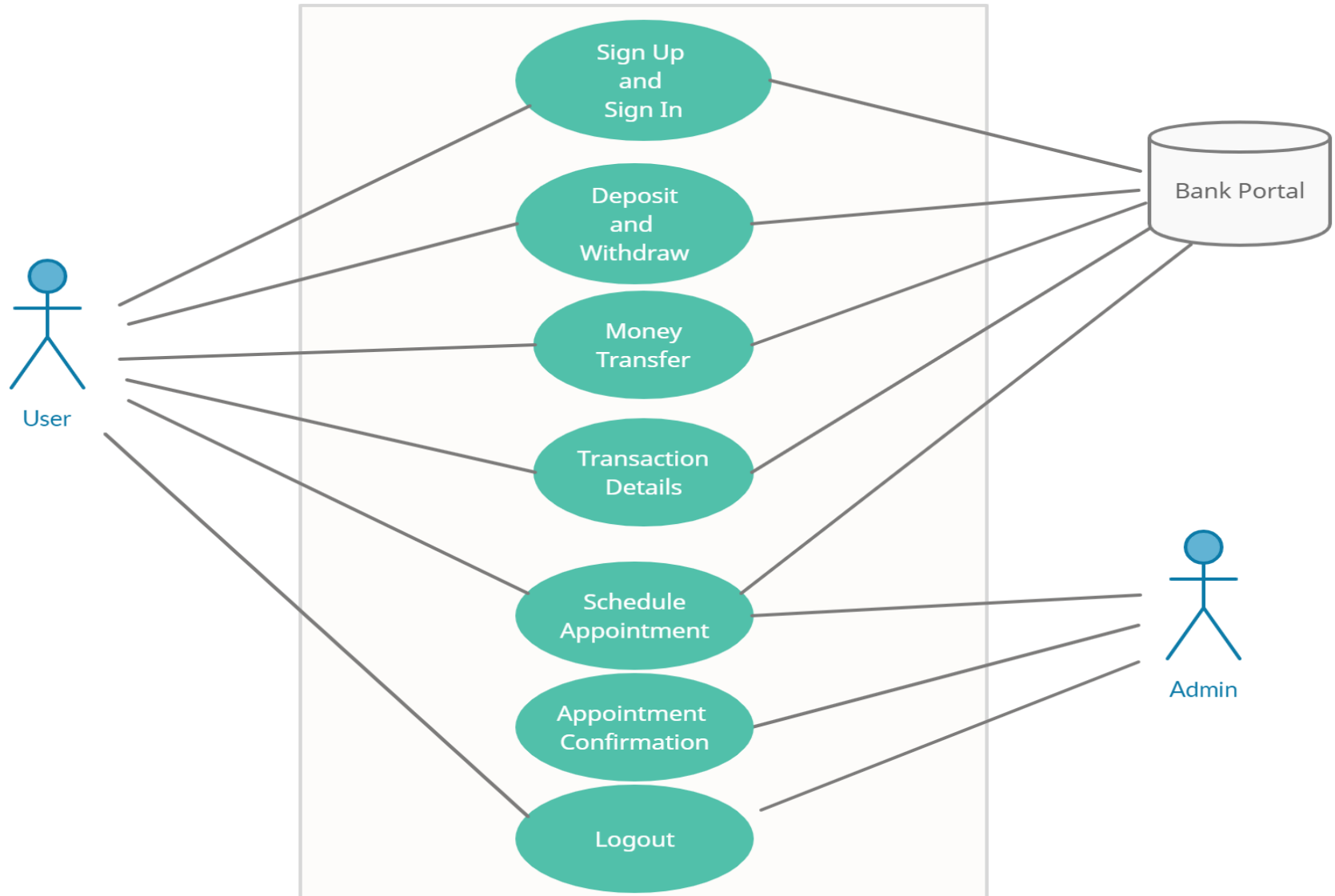In this proposed system, we have two main entities such as,

I. User

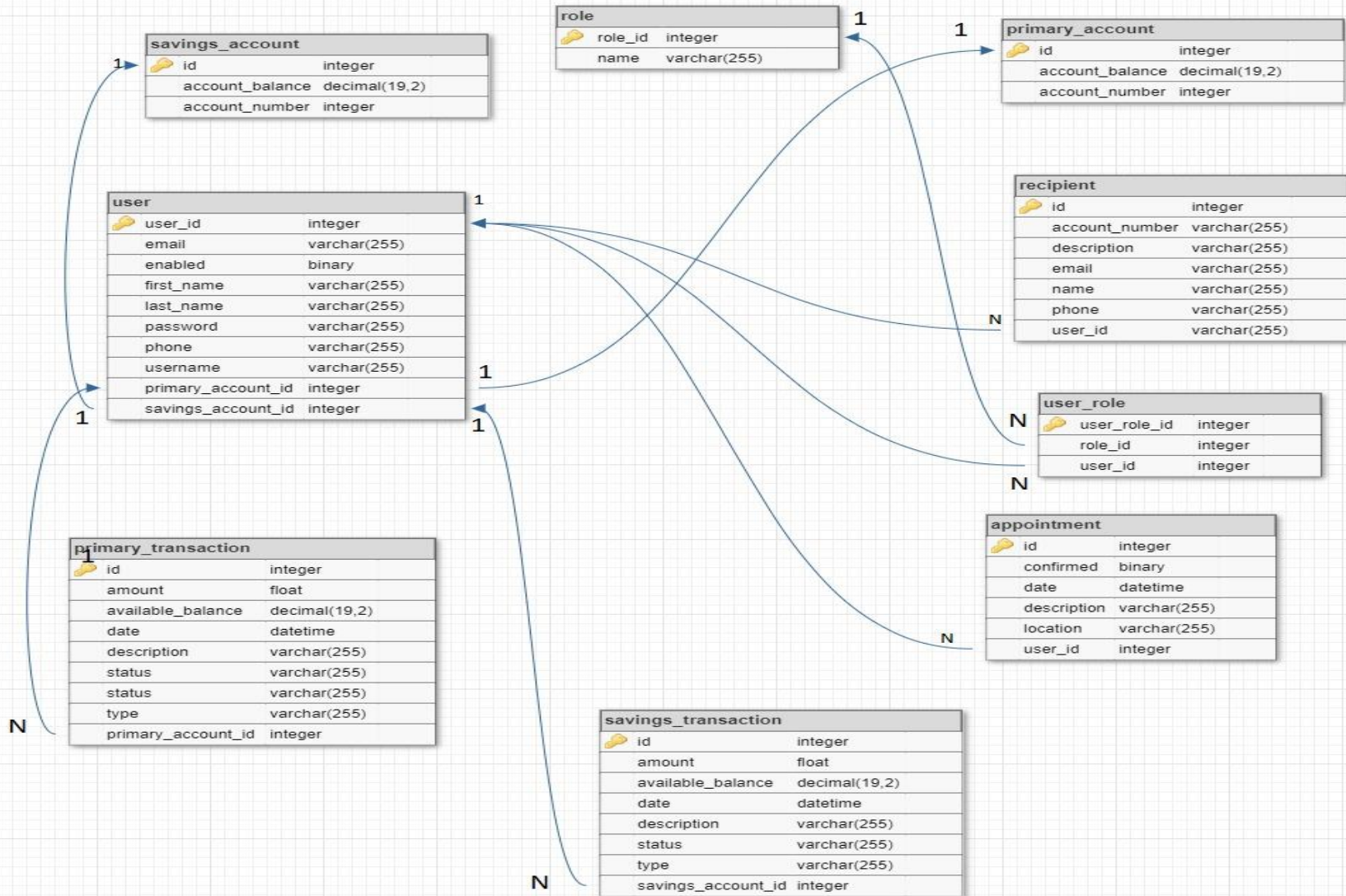❑ who can access bank portal

II. Admin

❑ who is managing requests coming from user

Use case diagram

ER Diagram

Project Features

- Application will let you deposit or withdraw money, schedule an appointment with a banker, view transactional details, transfer money between primary or savings account or with another customer.

By Creating two separate server:

1. User Frontend (used technology Spring Boot)
2. Admin Portal (used technology Angular)

1. User Frontend

- User-Front is a user-facing system.
- It includes modules such as
- ✓ User sign up/sign in
- ✓ User profile and change setting
- ✓ Transfer between accounts
- ✓ Transfer to other recipient
- ✓ Appointment scheduling

- ■ Technologies:
- ✓ Spring Boot
- ✓ HTML5/CSS3, Bootstrap
- ✓ Hibernate
- ✓ MySQL

Validations on Sign Up :

Sign Up

First Name
👤 Prerana

Last Name
👤 Enter your last name

⚠ Please fill out this field.

Phone
📞 xxx-xxx-xxxx

Your Email   Email already exists
✉ prerana@gmail.com

Username
👥 PreranaGholap

Password
🔒 PG
☑ Show Password

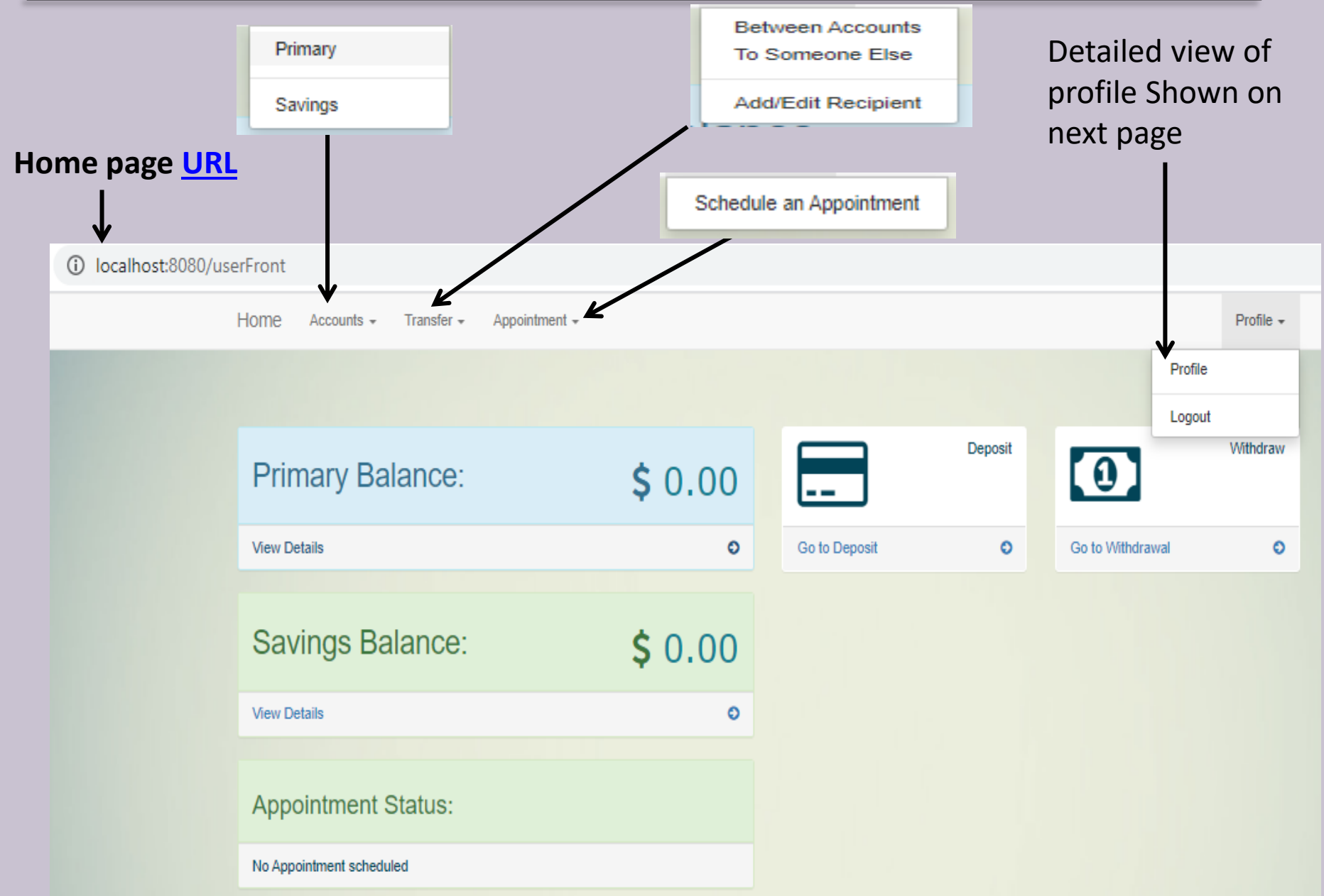**Sign up!**

Cancel

All fields are required

Max length for phone number is 10 is indicated with format xxx-xxx-xxxx

Sign up with same Email id Not allowed

Database Entry on MySQL after User Sign Up with encrypted password

user_id	email	enabled	first_name	last_name	password	phone	username	primary_account_id	savings_account_id
1	prerana@gmail.com	1	Prerana	Gholap	$2a$12$...	1111111111	PreranaGholap	1	1
2	neha@gmail.com	1	Neha	Gholap	$2a$12$...	0000000000	NehaGholap	2	2
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Functionalities implemented for user front:

Primary

Savings

Between Accounts
To Someone Else

Add/Edit Recipient

Detailed view of profile Shown on next page

Home page URL

Schedule an Appointment

localhost:8080/userFront

Home   Accounts ▾   Transfer ▾   Appointment ▾   Profile ▾

Profile

Logout

Primary Balance: $ 0.00

Deposit

Withdraw

View Details   ●

Go to Deposit   ●

Go to Withdrawal   ●

Savings Balance: $ 0.00

View Details   ●

Appointment Status:

No Appointment scheduled

- **User can change credentials anytime after sign up :**

My Profile

First Name

👤 Prerana

Last Name

👤 Gholap

Phone

📞 1010101010

Your Email

✉ prerana@gmail.com

Username

👥 PreranaGholap

Change Settings

Your Account Information

Primary Account Number	Savings Account Number
11223146	11223147

This button will allow user to change credentials, email, password, phone number and username after Sign Up.

(Continue…)

My Profile

First Name

 👤 Prerana

Last Name

 👤 Gholap

Phone

 📞 9999999999

Your Email

 ✉️ prerana@gmail.com

Username

 👥 PreranaGholap

Change Settings

Your Account Information

Primary Account Number	Savings Account Number
11223146	11223147

Updated Phone Number Reflecting in Database

Before Updating :

user_id	email	enabled	first_name	last_name	password	phone	username	primary_account_id	savings_account_id
1	prerana@gmail.com	1	Prerana	Gholap	$2a$12$...	1111111111	PreranaGholap	1	1

After Updating :

user_id	email	enabled	first_name	last_name	password	phone	username	primary_account_id	savings_account_id
1	prerana@gmail.com	1	Prerana	Gholap	$2a$12$...	9999999999	PreranaGholap	1	1

▪ Adding Recipient to List :

Recipient Information

Name

MeghaChaudhari

Email

megha@gmail.com

Phone

23423145

Account Number

12345

Description

Project Partner

Add/Edit Recipient

List of Recipients

Recipient Name	Recipient Email	Recipient Phone	Recipient Account Number	Description	
MeghaChaudhari	megha@gmail.com	23423145	12345	Project Partner	delete

(Continue...)

- ✓ Only after adding recipient, user can transfer money to some one else account.
- ✓ Account number of recipient user need to verify manually.

1. Please choose the recipient:

MeghaChaudhari ⌄

-- select the recipient --
MeghaChaudhari

2. Please select the account you would like to transfer from:

Primary ⌄

3. Please specify the amount you would like to transfer:

Amount
500

Transfer

▪ **Transfer Between Accounts:**

✓ If user selects transfer from Primary account then it will reflect on transfer to other option is Savings only.

1. Please select the account you would like to transfer From:

-- select your account --	⌄

-- select your account --
Primary
Savings

-- select your account --	⌄

3. Please specify the amount you would like to transfer:

Amount ₹

Transfer

- **View Transaction Details:**
- ✓ User can see 10 entries per page.
- ✓ User can search keyword for viewing specific transaction by amount or description whatever he/she remembers.

Savings Balance: $ 13001.00

Show 10 entries   Search: _____

| Post Date	Description	Type	Status	Amount	Available Balance
2021-02-02 01:17:18.0	Deposit to savings Account	Account	Finished	5500.0	5500.00
2021-02-02 01:17:28.0	Withdraw from savings Account	Account	Finished	100.0	5400.00
2021-02-02 01:19:47.0	Withdraw from savings Account	Account	Finished	5400.0	0.00
2021-02-02 01:27:30.0	Deposit to savings Account	Account	Finished	5000.0	5000.00
2021-02-02 01:27:49.0	Deposit to savings Account	Account	Finished	5500.0	10500.00
2021-02-02 01:28:21.0	Between account transfer from Savings to Primary	Transfer	Finished	500.0	10000.00
2021-02-02 01:50:47.0	Transfer to recipient Neha	Transfer	Finished	900.0	14600.00
2021-02-02 01:58:08.0	Between account transfer from Savings to Primary	Transfer	Finished	200.0	14400.00
2021-02-02 01:58:40.0	Transfer to recipient Neha	Transfer	Finished	1000.0	13400.00
2021-02-02 01:58:56.0	Between account transfer from Savings to Primary	Transfer	Finished	100.0	13300.00

Showing 1 to 10 of 11 entries

Previous **1** 2 Next

- **Appointment scheduling by user:**

Schedule An Appointment

Pick a Date and Time:

2021-03-05 18:03

Pick a location:

Nashik

Notes:

for changing Password

Submit Scheduling

✓ User can schedule appointment.

✓ Its pending status will reflect on home page of user login.

(status is managed by binary flag in database)

Appointment Status:

Appointment scheduled on date: 2021-03-05 18:03:00.0 at Nashik confirmation is pending.

2. Admin Portal

- Admin portal mainly used by bank officers .
- It involves User Account and Appointment modules.
- They can confirm an appointment.

- <u>Technologies:</u>
- ✓ Node JS
- ✓ NPM
- ✓ Angular Client
- ✓ Typescript

- Appointment request **received** to bank officer:

Appointment List Page

Appointment Id	User Name	Date	Description	Confirmed?	Action
1	PreranaGholap	03/05/2021 - 06:03	for changing Password	false	Confirm

- Database entry:
- ✓ Here, in database confirmed is Boolean flag.
- ✓ Whenever bank officer will confirm then it will set to one & will be reflecting on userfront.

id	confirmed	date	description	location	user_id
1	0	2021-03-05 18:03:00	for changing Password	Nashik	1

✓ As soon as bank officer will confirm appointment request.

Appointment List Page

Appointment Id	User Name	Date	Description	Confirmed?	Action
1	PreranaGholap	03/05/2021 - 06:03	for changing Password	true	

✓ It reflects confirmed flag is set to 1 in database.

id	confirmed	date	description	location	user_id
1	1	2021-03-05 18:03:00	for changing Password	Nashik	1

✓ Appointment status on User front will be confirmed.

Appointment Status:

Appointment scheduled on date: 2021-03-05 18:03:00.0 at Nashik is confirmed.

▪ **Enhancement**

➢ By adding cheque book deposition module and other card services.

➢ Email alerts for various services in the society can be added to the system so that users do not miss the updates of the bank.

▪ **Drawbacks:**

➤ We need internet connection is mandatory for accessing portal.

➤ While user transferring money to other recipient, he/she needs to verify account number manually.

Thank You .....!!!