A
Summer Internship Report
On
"Consultancy Service Company Application (Admin Module)"

(CE346 – Summer Internship - I)

Prepared by
Nikita Mirchandani (19CE076)

Under the Supervision of
Prof. Divyesh patel

Submitted to
Charotar University of Science & Technology (CHARUSAT)
for the Partial Fulfillment of the Requirements for the
Degree of Bachelor of Technology (B.Tech.)
for Semester 5

Submitted at

Accredited with Grade A by NAAC
Accredited with Grade A by KCG

U & P U. PATEL DEPARTMENT OF COMPUTER ENGINEERING
Chandubhai S. Patel Institute of Technology (CSPIT)
Faculty of Technology & Engineering (FTE), CHARUSAT
At: Changa, Dist: Anand, Pin: 388421.
July 2021

CERTIFICATE

This is to certify that the report entitled "**Consultancy Service Company Application (Admin Module)**" is a bonafied work carried out by **Nikita Mirchandani(19CE076)** under the guidance and supervision of **Prof. Divyesh Patel / Dr. Varang Acharya** for the subject **Summer Internship – I (CE346)** of 5th Semester of Bachelor of Technology in **Computer Engineering** at Chandubhai S. Patel Institute of Technology (CSPIT), Faculty of Technology & Engineering (FTE) – CHARUSAT, Gujarat.

To the best of my knowledge and belief, this work embodies the work of candidate himself, has duly been completed, and fulfills the requirement of the ordinance relating to the B.Tech. Degree of the University and is up to the standard in respect of content, presentation and language for being referred by the examiner(s).

Under the supervision of,

Prof. Divyesh patel
Assistant Professor
U & P U. Patel Dept. of Computer Engineering   Dr. Varang Acharya
CSPIT, FTE, CHARUSAT, Changa, Gujarat   Founder and CEO
                                                    Sannibh Technologies
                                                    Vadodara, Gujarat

Dr. Ritesh Patel
Head - U & P U. Patel Department of Computer Engineering,
CSPIT, FTE, CHARUSAT, Changa, Gujarat.

Chandubhai S. Patel Institute of Technology (CSPIT)

Faculty of Technology & Engineering (FTE), CHARUSAT

At: Changa, Ta. Petlad, Dist. Anand, Pin: 388421. Gujarat.

Certificate of Completion

SANNIBH TECHNOLOGIES

C – 333, Siddharth Excellence, Opp. D-Mart, Vasna Road, Vadodara 390007
www.sannibh.in   **info@sannibh.in**

Ref: ST/2021/July/02   26/07/2021

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Nikita Mirchandani,** student of CHARUSAT University, Changa, Gujarat has undergone **Six Weeks Summer Internship** with us during June-July 2021.

She has successfully completed the task on **Android Application Development** allotted to her and has enriched the technical expertise on the same.

During her internship we found er to be hardworking, sincere and dedicated in all the assignments.

We wish her the very best for her future endeavors.

Regards,

Dr. V. N. Acharya
Founder
Sannibh Technologies
Vadodara

<u>ABSTRACT</u>

During this internship, we were segregated into teams for development of android app. Our team was given the task to prepare an application for a consultancy company.

We had to involve PHP, MySQL as well in this app to include some external features.

We were given the task on including many different characteristics in the app as demanded by the consultancy company. The main objective of the app was to incorporate the features of the admin panel of the app.

This app aimed to provide the admin with the functionality of editing, reviewing the leads of the employee, partner and the branch tied with the company.

ACKNOWLEDGEMENT

Its gives me immense pleasure and gratification to present my presentation on Internship Summer-2021, this has been completed in Fourth semester of 2nd year CE. Every work that one completes successfully stands on the constant encouragement, good will and support of the people around.

On this note, I would like to thank all people who were behind and along with me and who constantly guided me during the time of difficulties I faced while developing the project for my internship with Sannibh Technologies.

First and foremost, I would like to thank the Faculties Chandubhai S. Patel Institute of Science and Technology, Changa to whom I am highly indebted towards.

Their invaluable contribution in making my internship possible and successful.

A very special thanks to each person who always were ready with their suggestions and advices to help through this with through their complete perseverance. Next, I would acknowledge my colleagues who have contributed their part of help with their active suggestions to the development of our project which were assigned together as a team, which provided to be of great help.

Lastly, I would express our whole hearted appreciation to the CSPIT family for the continuous support, encouragement and invaluable tips. They altogether provided us a favorable environment, and without them it would not have been possible to achieve my goal.

Thanks,
Nikita Mirchandani

Table of Contents

<u>Company description</u>

Sannibh Technologies, best and quality Software development, Training and mentoring provider from India, for web development requirements. We customize client's product considering as our products. Sannibh Technology knows the worth of customers.

We provide innovative and unique ideas within the customer's budget. Where you take care of your business and we take care of your IT needs. Customer's time is our most pressing matter therefore Sannibh technology ensures to deliver the client's product as earlier as possible.

The objective of Sannibh Technologies is to enable a large number of youths to take up industry-relevant skill training that will help them in securing a better livelihood.

Our sole aim is to nurture the youth impressively and to prepare practitioners who are globally competitive as well as committed towards their profession and who can thrive well in this volatile economy.

Our credo is to help individuals.

Chapter – 1

Introduction

1.1 Purpose of Internship

This project is an application developed using Android and PHP. The main reason of existence for this application is to provide an admin panel for the consultancy app.

1.2 Overview of project

Looking from a broad perspective, this project is useful for the company for very efficient and hassle-free management of their employees and their individual partners and branches. It basically provides a vast variety of statistical data pertaining to leads that have been brought in by partners / branches / employees

1.3 Objective

This application was developed for the company to monitor and edit the employee's data, the employees can manage company partners and branches and also add, view leads respectively. The leads are from fields including education, training, insurance, loan and HR.

1.4 Scope

The main aim of the application is to provide the company personnel to manage the employee's data and the leads of the partners and branch giving the admin to control and monitor their activities and accepting or rejecting the partners and branch.

1.5 Roles and Responsibility

Our team consisted of a project manager, development team and a tester. The project manager/team leader allocated the specific tasks to the team members according to their domain knowledge.

1.6 Internship plan (Week wise)

	Date	Day	Name of Module
Week 1	7/6/2021	Monday	Introduction group meeting
	8/6/2021	Tuesday	Discussion and Project Understanding
	9/6/2021	Wednesday	Requirement Gathering (Meeting with Company Owner)
	10/6/2021	Thursday	Login Screen UI basic
	11/6/2021	Friday	Logout button Functionality
Week 2	14/6/2021	Monday	User login Database and php file creation
	15/6/2021	Tuesday	Dashboard UI design
	16/6/2021	Wednesday	Edit admin profile (update data)functionality
	17/6/2021	Thursday	Edit admin profile (change password) functionality
	18/6/2021	Friday	Forgot Password (mail service) functionality
Week 3	21/6/2021	Monday	Employee Database creation
	22/6/2021	Tuesday	Employee recyclerview creation (backend) and php files
	23/6/2021	Wednesday	Edit & delete employee functionality in employee recycler
	24/6/2021	Thursday	Add employee functionality backend
	25/6/2021	Friday	Leads Database and php files and leads table
	26/6/2021	Saturday	Employee module testing and debugging
Week 4	28/6/2021	Monday	Partner Database creation
	29/6/2021	Tuesday	Accept and Reject button and Status UI
	30/6/2021	Wednesday	Partner recyclerview (backend) and php files
	1/6/2021	Thursday	Partner leads backend(Table) and php files
	2/6/2021	Friday	Partner Accept and Reject(mail sent to partner with reason)
	3/6/2021	Saturday	Partner module testing and debugging
Week 5	5/6/2021	Monday	Branch Database creation
	6/6/2021	Tuesday	Accept and Reject button and Status UI
	7/7/2021	Wednesday	Branch recyclerview (backend) and php files
	8/6/2021	Thursday	Branch leads backend(Table) and php files
	9/6/2021	Friday	Branch Accept and Reject(mail sent to branch with reason)
	10/6/2021	Saturday	Branch module testing and debugging
Week 6	12/6/2021	Monday	Final changes in UI
	13/6/2021	Tuesday	Merging of all modules
	14/6/2021	Wednesday	Graph (backend) and php files
	15/6/2021	Thursday	Final Testing and debugging
	16/6/2021	Friday	Compatiblity checking across various device

App. Specifications :

- Splash screen
- Sign Up and Login (forgot password and remember option)
- Dashboard and Logout (Update admin details and change password)
- Edit Profile (Admin)
- Branch module (View branch and its leads and manage accept/reject request)
- Partner module (View partner and its leads and manage accept/reject request)
- Employee module (View employees, add, edit and insert employees and view their leads)
- Statistics module (employee leads graph, partner leads graph, branch leads graph)
- Report
- Support

CHAPTER – 2

System Analysis

2.1 Study of existing system & its limitations

The current consultancy apps like (The job consultancy) handles the management of the employee and partner but not necessary the leads of the same. The existing app is company eccentric and has the limitation of the usability and adoptability.

2.2 Requirement of new system

2.2.1 Functional Requirements

User Interface Requirements: The easy-to-use UI enables a user-friendly environment so that the user can easily navigate through modules.

Storage and Database: The use of database enables to store and authenticate the user details and details related to all the modules.

Security: The app is secure and prevents unauthorized access.

2.2.2 Non-functional Requirements

- The app has a very well performance with no bugs.
- Its highly secure and reliable.
- The modular interface gives user an easily understandable environment.

2.3 Hardware Requirements

- Min Ram: 2GB

- Min Disc Space: 13 MB

- Mobile phone with a decent internet conncectivity

2.4 Software Requirements

- Android Version : (Recommended) - 10

  : (Compatible) - 8 onwards

- Works on android Operating system.

CHAPTER – 3

Development Environment

This app has been developed using **Android Studio** as the development tool and Java with XML as the development language.

Android Studio is the official Integrated Development Environment (IDE) for android application development. Android Studio provides more features that enhance our productivity while building Android apps.

Android Studio was announced on 16th May 2013 at the Google I/O conference as an official IDE for Android app development. It started its early access preview from version 0.1 in May 2013. The first stable built version was released in December 2014, starts from version 1.0.

Since 7th May 2019, Kotlin is Google's preferred language for Android application development. Besides this, other programming languages are supported by Android Studio.

Features of Android Studio :

- It has a flexible Gradle-based build system.
- It has a fast and feature-rich emulator for app testing.
- Android Studio has a consolidated environment where we can develop for all Android devices.
- Apply changes to the resource code of our running app without restarting the app.
- Android Studio provides extensive testing tools and frameworks.
- It supports C++ and NDK.
- It provides build-in supports for Google Cloud Platform. It makes it easy to integrate Google Cloud Messaging and App Engine.

CHAPTER – 4

System Design

4.1 Data Dictionary

Attributes(tbl_user)	Required	format	max field size
id(primary key)	yes	int	11
name	yes	text	-
username	yes	text	-
password	yes	text	-
email	yes	text	-

Attributes(tbl_branch)	Required	format	max field size
Branchcode	yes	int	11
Name	yes	text	-
Businessname	yes	text	-
Email	yes	text	-
Mobile	yes	varchar	10
Address	yes	text	-
City	yes	text	-
State	yes	text	-
Pincode	yes	varchar	6
IFSC	yes	varchar	33
BankACname	yes	text	-
BankACno	yes	varchar	14
BankACtype	yes	text	-
Reference	yes	text	-
status	yes	text	-

Attributes(tbl_partner)	Required	format	max field size
partnerCode	yes	int	11
userName	yes	text	-
businessname	yes	text	-
email	yes	text	-
mobile	yes	varchar	11
Address	yes	text	-
City	yes	text	-
State	yes	text	-
PinCode	yes	varchar	7
IFSC	yes	varchar	33
bankname	yes	text	-
ACno	yes	varchar	15
Reference	yes	text	-
tbl_partner	yes	text	-

Attributes(tbl_branchclient)	Required	format	max field size
client_id	yes	int	11
client_name	yes	text	-
reference_id	yes	int	11
selectedbid	yes	int	11
field	yes	text	-

Attributes(tbl_partnerclient)	Required	format	max field size
client_id	yes	int	11
client_name	yes	text	-
reference_id	yes	int	11
selectedpid	yes	int	11
field	yes	text	-

Attributes(tbl_empclient)	Required	format	max field size
client_id	yes	int	11
client_name	yes	text	-
reference_id	yes	int	11
selectedempid	yes	int	11
field	yes	text	-

Attributes(tbl_emp)	Required	format	max field size
id	yes	int	11
fullname	yes	text	-
username	yes	text	-
email	yes	text	-
password	yes	text	-
joining_date	yes	date	-
branch	yes	varchar	8
division	yes	int	11
CTC	yes	int	13
mobile	yes	varchar	10

4.2 Class Diagram

tbl_user
id
name
username
password
email

tbl_branch

Branchcode
Name
Businessname
Email
Mobile
Address
City
State
Pincode
IFSC
BankACname
BankACno
BankACtype
Reference
status

tbl_partner

partnerCode
userName
businessname
email
mobile
Address
City
State
PinCode
IFSC
bankname
ACno
Reference
tbl_partner

tbl_emp

id
fullname
username
email
password
joining_date
branch
division
CTC
mobile

tbl_branchclient

client_id
client_name
reference_id
selectedbid
field

tbl_partnerclient

client_id
client_name
reference_id
selectedpid
field

tbl_empclient

client_id
client_name
reference_id
selectedempid
field

CHAPTER – 5

Implementation Screenshots
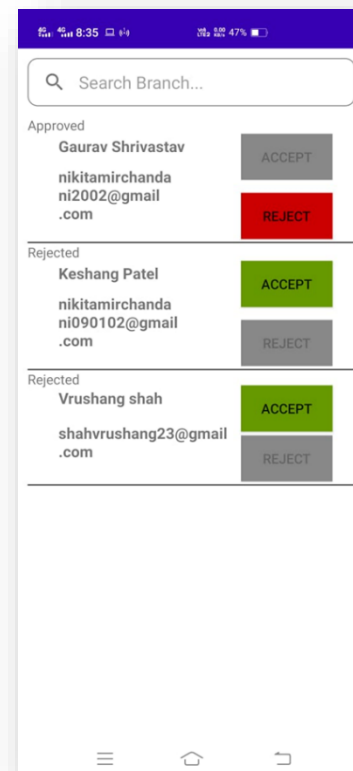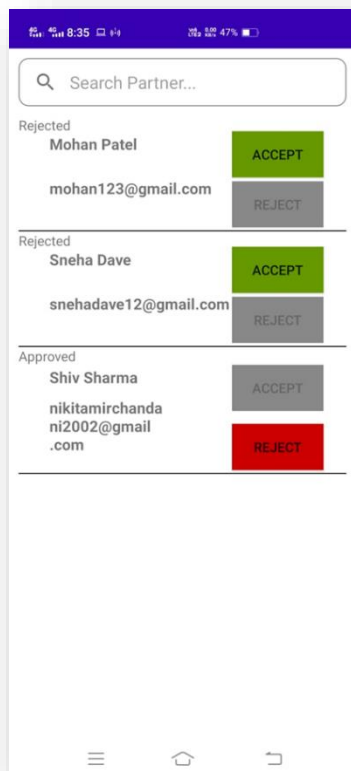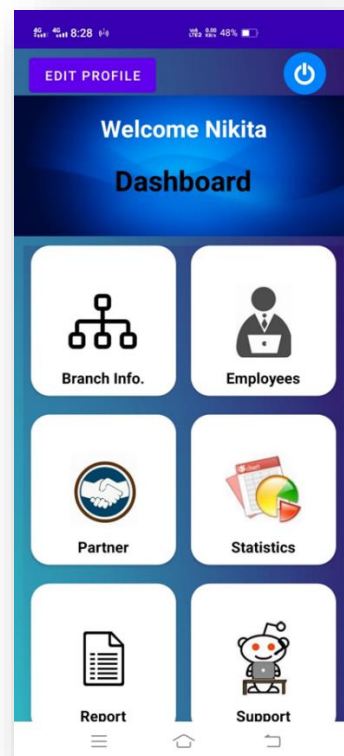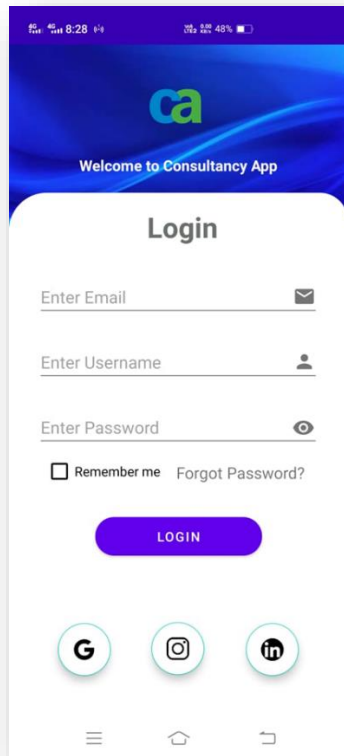
Edit Profile

nikitamirchandani2002@gmail.com

Nikita

UPDATE DATA   **CHANGE PASSWORD**

Reset Password

Enter your Email Id

nikitamirchandani2002@gmail.com

Enter old password

Enter new password

BACK TO LOGIN   **RESET**

🔍 Search Employee..   ➕ Add emp

Id: 14   Shanaya Patel
Email id: shanaya2002@gmail.com

Id: 15   Neha joshi
Email id: nehajoshi@123@gmail.com

Id: 16   Nikita mirchandani
Email id: niki123@gmail.com

Id: 17   Pakhi shah
Email id: pakhi@gmail.com

Id: 19   Jay Shah
Email id: jainilmshah11601@gmail.com

Id: 20   harry
Email id: harry123@gmail.com

Id: 21   empdemo
Email id: demoid

EMPLOYEE DETAILS

Emp Code: 14

Username: shanayapatel1234

Full Name: Shanaya Patel

Email: shanaya2002@gmail.com

Branch: A

**Division:** 2

Mobile No: 9898741254

Date of Joining : 2021-06-17

CTC: 125000

VIEW LEADS

| Client Id	Client Name	Field
1	jennifer fernandes	Training
3	Anasya shah	Training

Add New Employees

Enter fullname

Enter Username

Enter email id

Enter joining date

Enter Password

Enter Branch

Enter joining date

Enter Password

Enter Branch

Enter Division

Enter Mobile No

Enter CTC

REGISTER

Search Employee..

Add emp

Id: 14   Shanaya Patel

Edit Shanaya Patel

Shanaya Patel
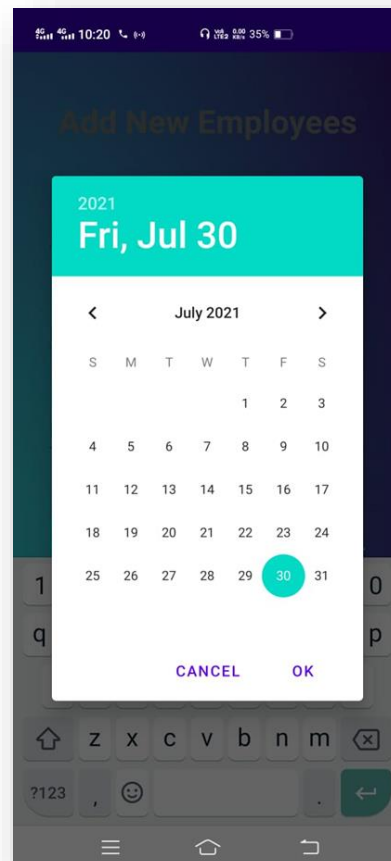
shanayapatel1234

shanaya2002@gmail.com

2021-06-17

A

2

125000

9898741254

CANCEL   SAVE

Screen 1 — Delete confirmation dialog

Search Employee.. Add emp

Id: 14 Shanaya Patel
Email id: shanaya2002@gmail.com
Id: 15 Neha joshi
Email id: nehajoshi@123@gmail.com
Id: 16 Nikita mirchandani
Email id: niki123@gmail.com

DELETE EMPLOYEE
Are you sure you want to delete details of Shanaya Patel ?

CANCEL   DELETE

Id: 20 harry
Email id: harry123@gmail.com
Id: 21 empdemo
Email id: demoid

Screen 2 — Employee list after deletion

Search Employee.. Add emp

Id: 14 Shanaya Patel
Email id: shanaya2002@gmail.com
Id: 16 Nikita mirchandani
Email id: niki123@gmail.com
Id: 17 Pakhi shah
Email id: pakhi@gmail.com
Id: 19 Jay Shah
Email id: jainilmshah11601@gmail.com
Id: 20 harry
Email id: harry123@gmail.com
Id: 21 empdemo
Email id: demoid

Deleted Successfully!

Undo Deletion of :Shanaya Patel   UNDO

Screen 3 — Employee Leads chart

Employee Leads

1.00 Insurance
2.00 Education
1.00 HR
Total Employee Leads
2.00 Loan
3.00 Training

Education Training Loan HR Insurance Employee Commiss

Screen 4 — Add New Employees date picker

Add New Employees

2021
Fri, Jul 30

July 2021

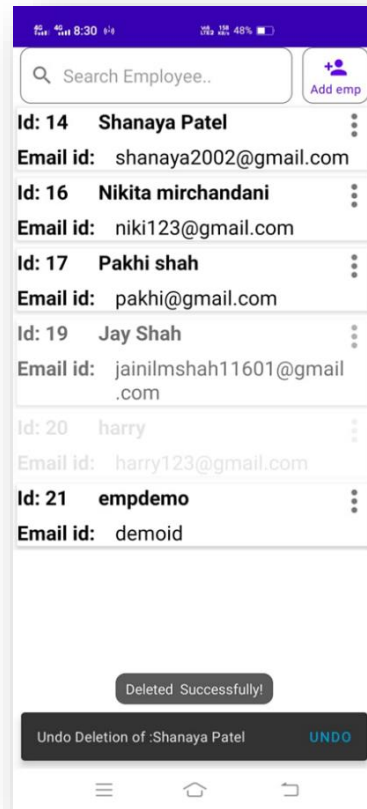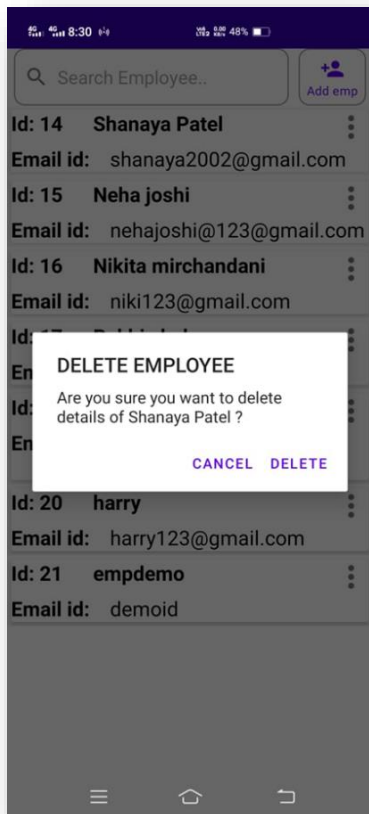| S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

CANCEL   OK

CHAPTER – 6

Test Cases

Test case scenarios	Test case Name	Pre-condition	Testing Steps	Testing Data	Expected Result	Post Condition	Status (Pass/ Fail)
Verify Login	Valid username Valid Password	User should be registered	1. Enter Username 2. Enter Password 3. Click on Login	\<valid username\> \<valid password\>	Logged in Successfully	Show Dashboard	Pass
Verify Login	Valid username Invalid Password	User should be registered	1. Enter Username 2. Enter Password 3. Click on Login	\<valid username\> \<valid password\>	Invalid username or password	Still on login page	fail
Forgot password	Valid username	User should be registered	1. Enter the username 2. Enter the email id	\<Valid username\> \<valid email-id\>	A link in sent via the email when clicked it verifies the	User can enter and set the new password	pass
Remember me	It remembers the login credentials and skips the login activity.	User should be registered	1. Enter the username and password 2. Click on remember me	\<valid username\> \<valid password\>	When the users close the app and opens again it takes user directly to the dashboard	Show dashboard	pass
Change password	New password not used previously	User should enter a new password	1. Click Edit profile 2. Click Change password	\<valid email-id\> \<old password\> \<valid new password\>	An email of changed Password and it updated successfully	Show dashboard	Pass
Logout	User logout from the app	User should be logged in	Click on the logout button in the dashboard	-	The user should be logged out successfully	Show login page	pass
Update data	Update user name, email address	User should be logged in	1. Click Edit profile 2. Click Change data	\<new user-name\> \<new-email address\>	The user data should be updated successfully	Show login page	pass
Add employee	Add new Employee	Admin should add new employee	1. Go to employee module 2. Click add employee	\<Enter username\> \<Enter full name\> \<Enter email id\>	The admin should be able to add the new employee.	New employee added into the database successfully	pass

				<Enter joining date> <Enter password> <Enter branch> <Enter Division> <Enter mobile number> <Enter CTC>			
Search employee	Search an employee from the list	The employee to be searched should be present in the database	From the search bar enter the name of the employee to be searched.	<Valid employee name>	The entered employee name should be displayed	Show the details of the employee searched	pass
Edit employee	Edit the data of the employee	The employee must be present in the database as well as the list	1. In the employee module long press the employee's name to be deleted 2. Press edit	<Enter the details of the employee to be edited>	The updated details of the employee should be displayed	Shows the updated employee list	pass
Delete employee	Delete the employee from the database	The employee to be deleted should be present in the list	1. In the employee module long press the employee name to be deleted 2. Press delete	-	The employee should be deleted from the database as well as the list	Show to rest of the employees	pass
Search Branch	Search a branch from the list	The branch to be searched should be present in the database	From the search bar enter the name of the branch to be searched.	<Valid Branch name>	The entered branch name should be displayed	Show the details of the branch to be searched	pass

Accept/Reject branch	Accept or reject the partnership with the branch	The branch should ne in the database pending validation	1. Go to the branch module 2. For a particular branch click accept or reject	-	The accepted branch should get the email of confirmation and rejected should get the email that it is rejected	The email for the accepted branch contains the Login id and password	pass
Search Partner	Search a partner from the list	The branch to be searched should be present in the database	From the search bar enter the name of the partner to be searched.	<Valid Partner name>	The entered partner name should be displayed	Show the details of the partner to be searched	pass
Accept/Reject partner	Accept or reject the partners	The partner should be in the database pending validation	1. Go to the branch module 2. For a particular branch click accept or reject	-	The accepted partner should get the email of confirmation and rejected should get the email that it is rejected	The email for the accepted partner contains the Login id and password	pass
View employee/partner/branch details	The details of each entry of the module is displayed	The employee/partner/branch should have entries in the database	1. Go to the specific module 2. Click the entry that you want to get details for	-	The details of the employee/partner/branch will be visible	Details page	pass
View leads of employee/branch/partner	The leads of each entry of each module will be visible as a pie chart	The employee/partner/branch should have entries in the database	1. Go to the specific module 2. Click view leads on the entry that you want to get leads for	-	The leads of the employee/partner/branch will be visible	Leads graph	pass

CHAPTER – 7
Limitation and Future Work

- The current app does not give the commission statistics and report of the leads of the partner and branch module.

- Future Work:
    1. To implement the Report module which gives the stats of the leads of the partner and branch module respectively.
    2. To implement sort functionality in the modules for better user experience.

CHAPTER – 8
Conclusion

- First time internship with a company (Sannibh Technologies) for 6 weeks was an overwhelming yet educated experience.

- It gives an inside view of how the knowledge and skills which we learn in our classes are implemented for solving actual real-life problems for certain people.

- This whole experience also shows us a glimpse of the aspect of life after we graduate and helps us to sharpen our skills to use them resourcefully.

References

- http://jservice.io/api/clues

- https://api.github.com/search/users?q=language:java+location:lagos

- https://youtu.be/IGGT_jfZQrA

- https://www.youtube.com/watch?v=Px9KanE-ohk

- https://youtu.be/BQj7vahVvhE

- https://youtu.be/JkJ0k8zMsZU

- https://youtu.be/ayKMfVt2Sg4

- https://youtu.be/maYnD0Sdr7c

- https://youtu.be/4e8be8xseqE

- https://www.simplifiedcoding.net/android-volley-example-to-load-image-from-internet/

- https://stackoverflow.com/questions/45940861/android-8-cleartext-http-traffic-not-permitted

- https://www.youtube.com/watch?v=X2mY3zfAMfM