

**Madhav Institute of Technology and Science, Gwalior**  
(A Govt. Aided UGC Autonomous Institute, affiliated to R.G.P.V, Bhopal, M.P)

**Department of Computer Science & Engineering and  
Information Technology**



**An Internship Report**

**On**

**Android Development**  
(Code: 150801)

**Session: Jan – Jun 2021**

**Submitted To:**  
Prof. Manish Dixit

**Submitted By:**  
Achal Shakywar  
CS, 4<sup>th</sup> Year  
0901CS171007

## **APPROVAL**

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This report has been submitted for the evaluation/examination under the subject Internship/Project, code 150801 BTech 8<sup>th</sup> Sem (MITS, Gwalior) with the approval of Industrial mentor.



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Mr. Akash Tejwal  
Sr. PHP Developer, Quest  
[Industry Mentor]

17-MAY-2021  
Indore, M.P

## DECLARATION

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I **Achal Shakywar** hereby declare that this report is an original work of me and has not been submitted before for any academic award in MITS.



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Achal Shakywar  
CS, 4<sup>th</sup> Year (0901CS171007)

17-MAY-2021  
Indore, M.P

## **ACKNOWLEDGEMENT**

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I express my gratitude towards my mentor **Mr Akash** & esteemed team of Quest for great guidance, cooperation & support throughout the journey of internship & ahead.

I sincerely obliged to professor **Dr. Manish, HoD of Computer Science** for his whole hearted and enthusiastic support by sparing his valuable time and providing necessary suggestions & support.

Words cannot express the love and support I received from my family, friends, peers & colleague.

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## INTRODUCTION

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I appointed as Android App Developer Trainee at Quest Global Technologies Private Limited, Indore on 05<sup>th</sup> Feb 2021.

Subsequently, I joined the work team virtually on 12<sup>th</sup> Feb 2021.

**Location:** 202, Atulya IT Park, Next to Crystal IT Park, Bhawarkua Main Rd, Khandwa Naka, Indore, 452014

The first day was the orientation programme where I learnt about the company's infrastructure & functionalities.

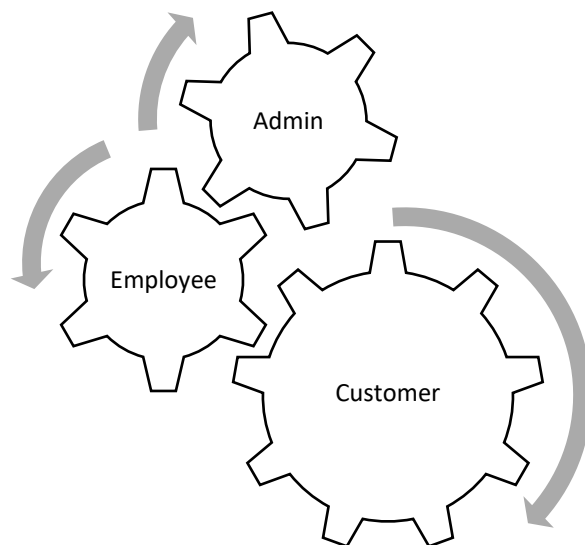
For the next three-four days, they trained me on collaborative tools & prepared me with the detailed concepts of the Software Life Cycle.

The all-time principle is to learn & grow.

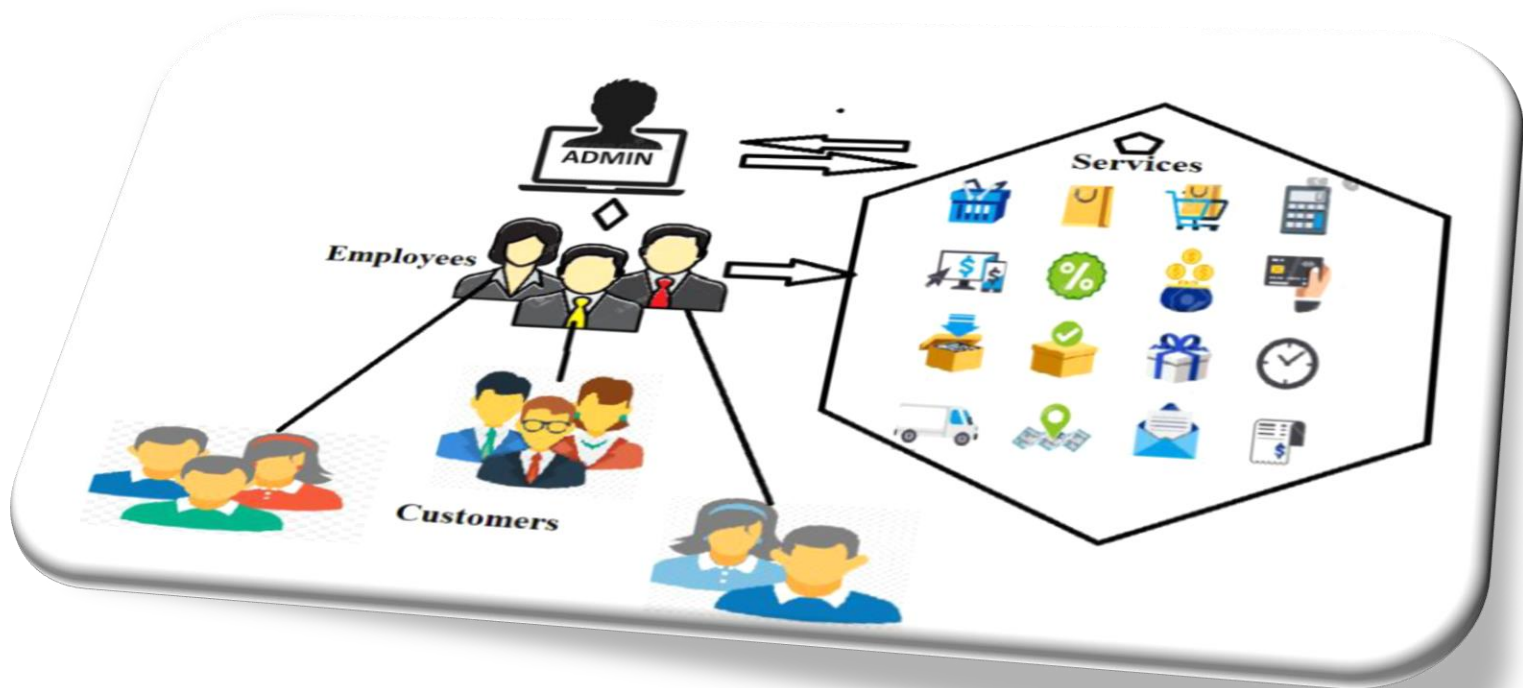
With this motto, the company shortly associated me with the ongoing client's projects VIRTUAL OFFICE.

**“Praedico’s Virtual Office” for Praedico Global Researcher Pvt. Ltd:** An android app to manage all the office works of employee as well as of administrator.

- Mange Employees
- Manage Customer.
- Maintain the records of new products.
- Analysis the sales
- Meeting Scheduler
- Employee Rating
- Customer Problem Solver
- Monthly Tracker

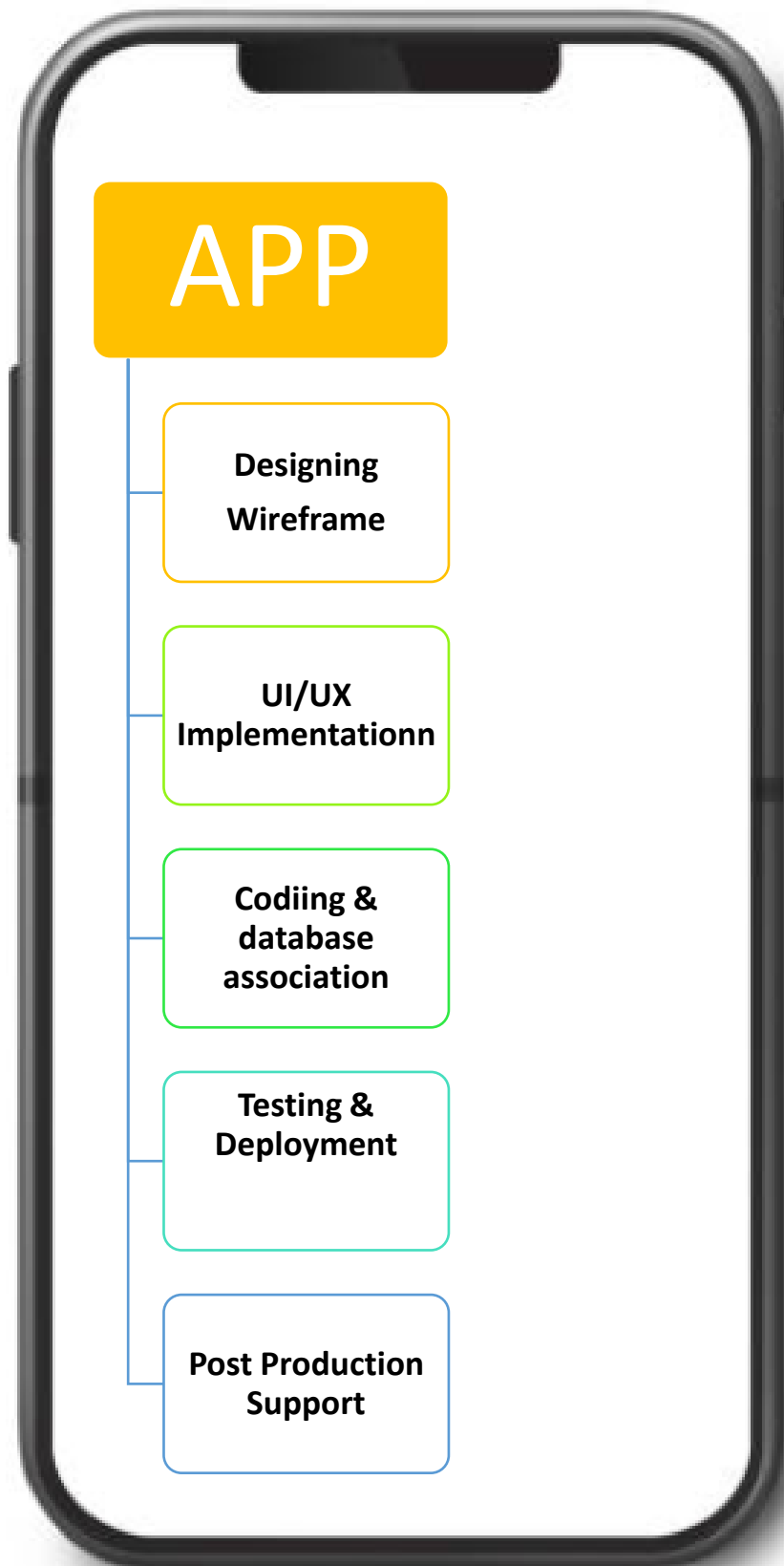


## PICTORIAL REPERSENTATION



## ANDROID APP DEVELOPMENT

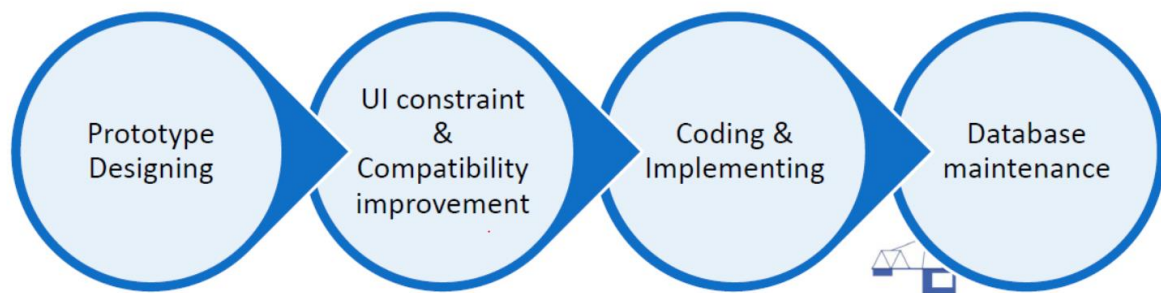
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## ROLE

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### 1. Prototype Designing

It is the initial phase after the requirement analysis & documentation of client's requirements. In this stage designer has to deeply understand the conceptual requirements and turn into semi functional possible design (Prototype). This process helps to provide the real experience of product before its built. Therefore, it is one of essential process for development.

### 2. UI constraint & Compatibility Improvement

This stage is for improving the user experience. In today's era, nothing is fixed so on the designs & model. To make an app efficient for the user, it should support all maximum size range products & different versions of android. Developer makes changes for better support.

### 3. Coding & Implementing

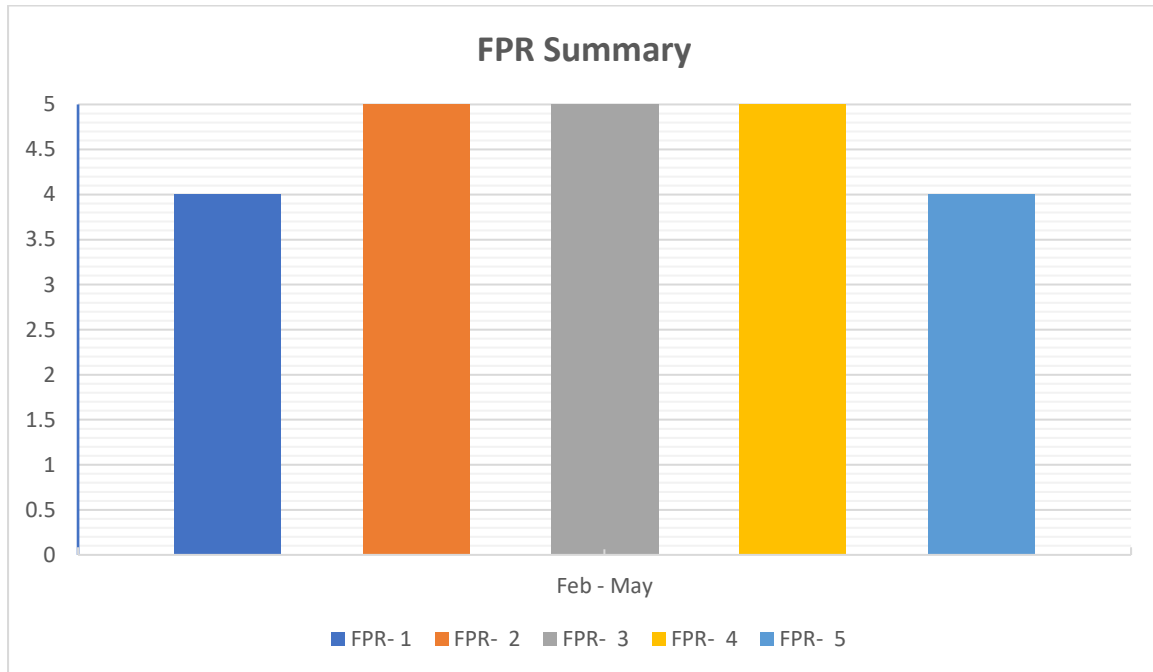
This phase is the manufacturing unit for android software. The turning of design to actual service product is proceed here. The individual code, module, api & assert are combined together as per the requirement to make whole as the final client's software.

### 4. Database Maintenance

This is the main routine, few data cleaning, manipulation & entries need to be done manually directly to the database for better outcomes. Database designing for a project is the key for the easy network connectivity.

## FORTNIGHTLY PROGRESS REPORT

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### Remarks-

Excellent & Very Good.

## FPR-1

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### **FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**


Name of student	Achal Shakywar	Department	CSE		
Industry/Organization	Quest Glt Ltd. Indore	Date/Duration (DD/MM/YR - DD/MM/YR)	12/02/2021-25/02/2021		
<b>Criterion</b>	<b>Poor</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge upgradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work					✓
Sincerity/Hard work			✓		
Comment on nature of work done/Area/Topic	Working & learning the php modules of connection establishment & settings with databases.				
<b><u>OVERALL GRADE (Any one)</u></b> <b><i>(POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT)</i></b>	<b>VERY GOOD</b>				
<b><u>Name of Industry Mentor</u></b>	Akash Tejwal, Senior Php Developer				
<b><u>Signature of Industry Mentor</u></b>					

<b>Receiving Date</b>		<b>Name of Faculty Mentor</b>		<b>Sign</b>	
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**FPR-2**

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**FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**


Name of student	Achal Shakywar	Department	CSE		
Industry/Organization	Quest Glt Ltd. Indore	Date/Duration (DD/MM/YR - DD/MM/YR)	26/02/21-11/03/21		
<b>Criterion</b>	<b>Poor</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge upgradation				✓	
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Insertion Operation in MySQL database using PHP. Performed good!!				
<b><u>OVERALL GRADE (Any one)</u></b> <b><u>(POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT)</u></b>	<b>EXCELLENT</b>				
<b><u>Name of Industry Mentor</u></b>	Akash Tejwal, Senior Php Developer				
<b><u>Signature of Industry Mentor</u></b>					

<b>Receiving Date</b>		<b>Name of Faculty Mentor</b>		<b>Sign</b>	
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### FPR-3

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#### **FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**


Name of student	Achal Shakywar	Department	CSE		
Industry/Organization	Quest Glt Ltd. Indore	Date/Duration (DD/MM/YR - DD/MM/YR)	12/03/21 – 25/03/21		
<b>Criterion</b>	<b>Poor</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge upgradation				✓	
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	UI constraint & compatibility improvement.				
<b>OVERALL GRADE (Any one) (POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT)</b>	<b>EXCELLENT</b>				
<b>Name of Industry Mentor</b>	Akash Tejwal, Senior Php Developer				
<b>Signature of Industry Mentor</b>					

Receiving Date		Name of Faculty Mentor		Sign	
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**FPR-4**

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**FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**

Name of student	Achal Shakywar	Department	CSE		
Industry/Organization	Quest Glt Ltd. Indore	Date/Duration (DD/MM/YR - DD/MM/YR)	26/03/21 - 08/04/21		
<b>Criterion</b>	<b>Poor</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge upgradation				✓	
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	Inter App Integrations.				
<b>OVERALL GRADE (Any one) (POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT)</b>	<b>EXCELLENT</b>				
<b>Name of Industry Mentor</b>	Akash Tejwal, Senior Php Developer				
<b>Signature of Industry Mentor</b>					

Receiving Date		Name of Faculty Mentor		Sign	
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**FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**

Name of student	Achal Shakywar		Department	CSE	
Industry/Organization	Quest Glt Ltd. Indore		Date/Duration (DD/MM/YR - DD/MM/YR)	09/04/21-22/04/21	
<b>Criterion</b>	<b>Poor</b>	<b>Average</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge upgradation					✓
Performance/Quality of work				✓	
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Effective Navigation				
<b>OVERALL GRADE (Any one) (POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT)</b>	<b>VERY GOOD</b>				
<b>Name of Industry Mentor</b>	Akash Tejwal, Senior Php Developer				
<b>Signature of Industry Mentor</b>					

Receiving Date		Name of Faculty Mentor		Sign	
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## TECHNOLOGIES

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1. **Abode XD:** Software used to design wireframes for devices such as watches, television, computer, smartphone & tablets.
2. **Java:** It is a programming used for development & coding of android applications.
3. **Android Studio:** It is official IDE launched by the Google for developers and it is world's best android development environment IDE.
4. **WampServer:** It is the local database hosting server used for local texting & developing. It provides Apache, MySQL, php.
5. **Php:** It is server-side scripting language, used to connect frontend and backend. It returns json object which can be easily read by system.
6. **MySQL:** It is one of the popular & most used database across the globe.



## **HARDWARE & SOFTWARE CONFIGURATIONS**

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Processing environment is the actual & needed infrastructure for developing.

### **Software Requirement**

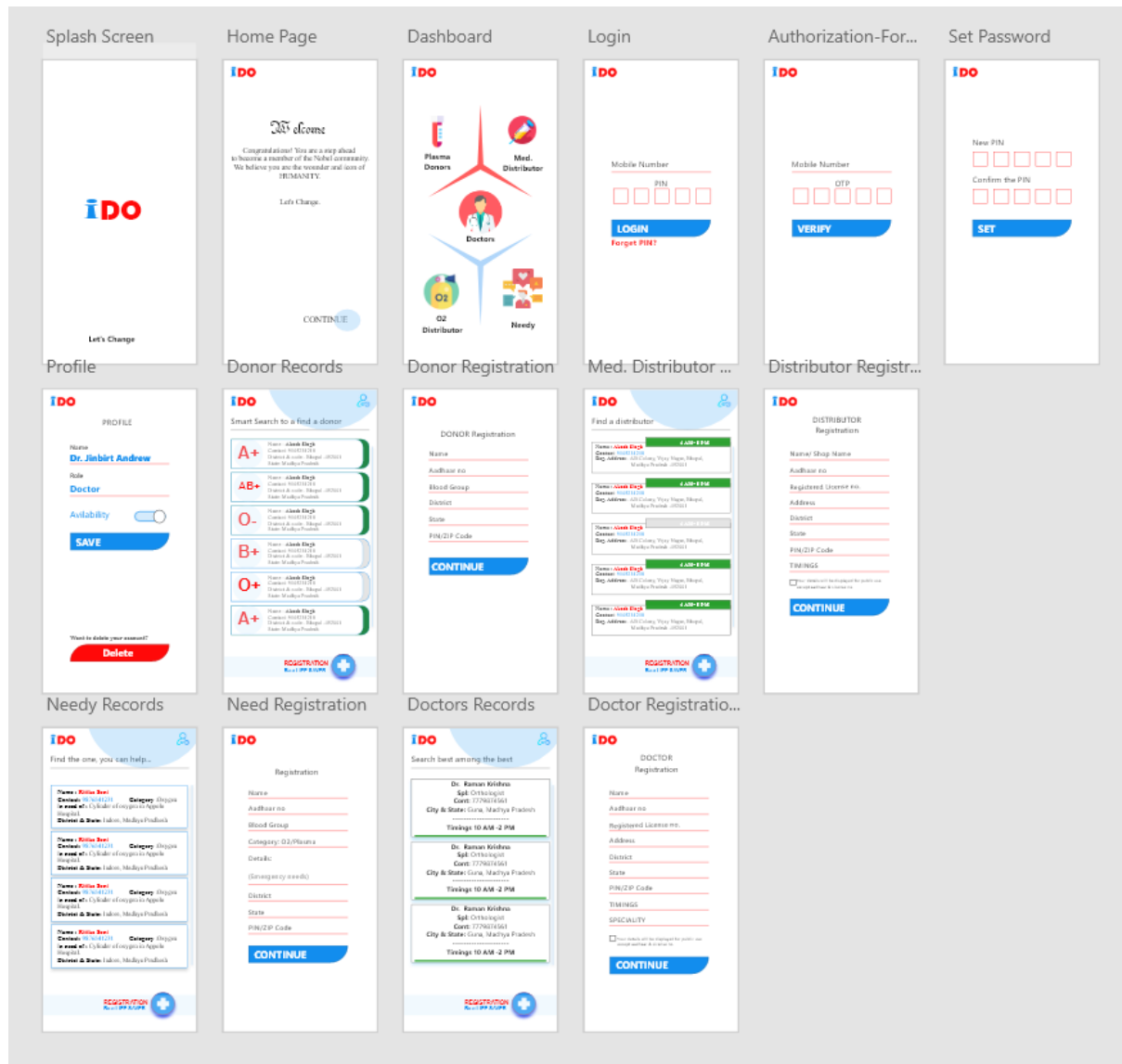
- ✦ **Operating System:** Windows 10 Home
- ✦ **Front-end Tool:** Android Studio
- ✦ **Back-end Tool:** MySQL Server
- ✦ **Hosting Server:** WampServer64

### **Hardware Requirement**

- ✦ **RAM:** 8 Gb (DDR4)
- ✦ **SSD:** 128 Gb+
- ✦ **Clock Speed:** 2.4 +
- ✦ **Processor:** i5 8<sup>th</sup> Generation or latest / corresponding to ryzen
- ✦ **Graphic Card:** Nvidia 2 Gb [Minimum]
- ✦ **Free Space:** 4 Gb [Minimum]
- ✦ **Internet Connection:** 245 Kbps [Minimum]

## WORK TOUR

**iDO App** [For needy peoples in this tough covid time.] – Completely prepared & designed by me.



## Virtual Office [PROJECT SNAPS] -----



Application Logo

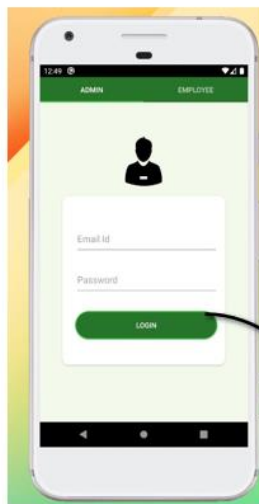
Applications



Splash Screen



Login page for employee and admin

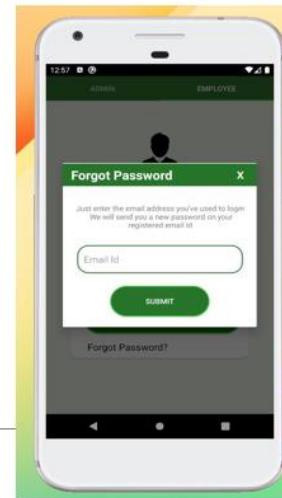


User(Employee) login details

- Name
- Email
- Phone
- Location
- ID number



Forgot password



Employee Name List



Employee dashboard



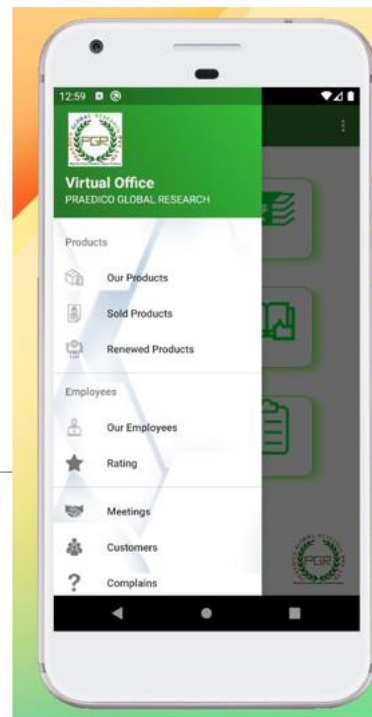
Employee Menu



Admin Dashboard

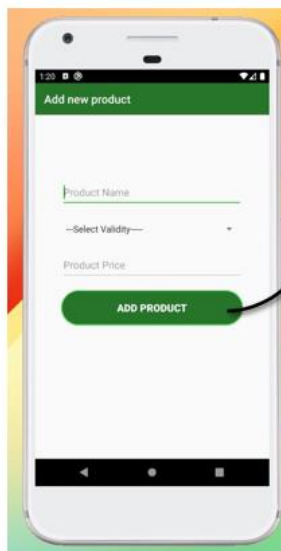


Admin Navigation Bar



Add new product

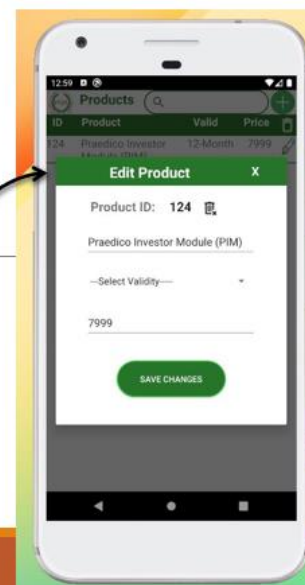
- Name
- Validity
- price



List of all products



Editing an existing product



To renew an already sold product

To sell a product

**Add Sold Product**

PGRC: 101

Customer Details:  
Name: Varsha Emaliya  
Email: varsha1996@gmail.com  
Contact: 8959281172

PIM

INR 2000 (Val:12-Months)

**SELL**

**Add Renewed Product**

PGROID 1

Order Details: PGROID-1

Customer ID: 101  
Name: Varsha Emaliya  
Email: varsha1996@gmail.com  
Mobile no: 8959281172

Existing Plan:  
Product ID: 112  
Product Name: PIM  
Validity : 12-Months

Net Amount : INR 2000/-  
(Val: 12-Months)

**RENEW**

Sold product list-

Shows list of all products that are sold

**Sold Products**

Order ID	Cust. ID	Product Name	Sold Date	Employee ID
PGROID-1	PGRC-101	PIM	2020-02-03	ak
PGROID-19	PGRC-100	TRADING NEURON	2020-02-04	Priyank.353@pgr.com

To add a new customer

**New Customer**

First Name

Last Name

Email

Contact

Address

Pincode

Aadhaar

**SUBMIT**

**Company Customers**

ID	Name	Email ID	Address
100	Adish Goyal	adishg1996@gmail.com	In front of Gaurdhar Modern School, Sarafa Bazar, Lashkar (Dweller-474001)
101	Varsha Emaliya	varsha1996@gmail.com	Dweller-474001

Shows list of all customers

Shows complaints made by customers

**Customer's Complaints**

ID	Order ID	Complaint Type	Date	Complaint By
PGRCN-25	PGROID-17	App Not Working	22-Nov-2019	Priyank.353@pgr.com
PGRCN-26	PGROID-18	Unable to Create SIP	22-Nov-2019	Priyank.353@pgr.com
PGRCN-27	PGROID-19	App Not Working	22-Nov-2019	Adish.613@pgr.com
PGRCN-28	PGROID-1	Unable to Create SIP	03-Feb-2020	ak
PGRCN-29	PGROID-1	App Not Working	05-Feb-2020	ak

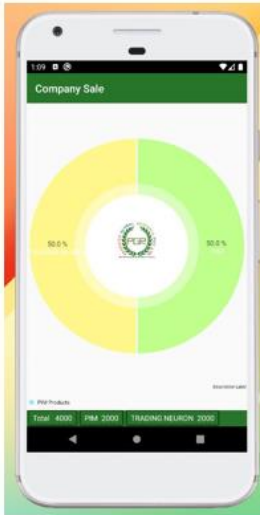
Gives confirmation when complaint gets resolved

**Confirmation**

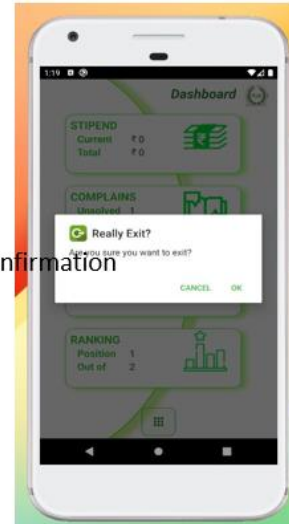
Are you sure this complaint is solved?

\*IMP: After this you are not allowed to make any changes.

**NO** **YES**



Graphical representation of sales



Exit page with confirmation

Shows ratings of all employees

Employee Id	No. of Sale	Total Sale	Stipend	Position
ak	1	₹ 2000	₹ 400.00	1
Priyank.353@pgr.com	1	₹ 2000	₹ 400.00	2

## CONCLUSION

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With this internship, I learned a lot about how to make final perfect products which can be deliverable to clients. It takes me one step forwards to the perfection & sustainable developments. The technology such as php are taught which is very beneficiary for server-side scripting.

I can confidently state that I can develop the market standards android based application after the conclusion this internship.

Both industry & institute help a lot to reach this milestone star.

#DEVELOPER

MITS | INTERNSHIP REPORT | 150801 | CSE | 4<sup>Th</sup> YEAR | 0901CS171007

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