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## *Application Development 2*

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### Deliverable 2

#### Date of Submission:

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#### Team Members:

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#### Declaration:

☒ Team Members:

- I, Vikas Modi, Student ID #2102188, certify that I have contributed to this deliverable.



- I, Deepali Patel, Student ID #6158127, certify that I have contributed to this deliverable.



- I, Hardik Vaviya, Student ID #2102118, certify that I have contributed to this deliverable.



## Contents

1 - Executive Overview .....	3
2 - Aim .....	4
3 - Description.....	4
4 - Functional Requirements and Non-Functional Requirements: .....	5
Functional Requirements: .....	5
Non-Functional Requirements: .....	6
5 - User Stories: .....	7
6 - Individual's role and responsibilities:.....	10

## 1 - Executive Overview

This is the final deliverable for this project. We have successfully built, from the ground up, an Android application using Flutter and Dart. Meeting the client's requirements and need, it uses a sequential database to store data and lists, including the login credential information of the users, which is stored separately for security purposes. Adobe XD was used to make the prototype of the application in the initial stage.

It is not deployable yet and requires some vigorous testing to be done by at least 15 users. Aside from those nit-picks, the application is fully working and functioning. Aside from this, all user inputs are validated to keep them from injecting maliciously intended queries.

It is an Android studio-based application that is using flutter libraries, and Dart Programming elements for the front end. The link to the GitHub page of the application is here.

<https://github.com/adinashby-vanier-college/app-dev-2-project-VAVHAR>

## 2 - Aim

'MED-LIFE PHARMA' is the digital version of an old-fashioned business communication system run by a mediator called 'Med-Life Pharma Agency' between clients and Companies. The Agency provides Medicines, Supplements, Prescribed Drugs, Health-care products, Medical Equipment, Beauty products, and so on to their clients on real-time orders from Distributors or directly from companies. Here, the main purpose of this application is to manage the data of orders from clients to companies according to the requirements which are hard to keep safe based on a pen-paper system. Thus, 'MED-LIFE PHARMA' will run on a real-time database system so the user can have the data at any time, and it will be very convenient and easy to have and modify as well as place the orders.

## 3 - Description

The 'Med-Life Pharma' includes 3 Initial users - Admin, Stock Manager, and Order Clerk. All three users have their roles without much interference amongst themselves.

- User 1 - ADMIN - The Admin would be the owner, whose work would entail adding users and managing users while generating/allotting input credentials to all employees based on their work roles. Admin will also be able to view and generate reports for stocks and orders to keep themselves updated in terms of the working of their employees.
- Use 2- STOCK MANAGER - The Stock manager would be an employee responsible for inventory. They would make sure that the items restock as per requirements. They can view stocks and orders, generate orders, Add and Modify Products, update stock Listings and Generate Stock reports.
- User 3 - ORDER CLERK - The Order clerk would be a level 3 employee of the company. They are the first contact between customers and the agency. They bring orders for the agency and handle deliveries. Their application interface will include functions such as - Adding orders, managing orders, generating order reports, Add and Modify Clients.

## 4 - Functional Requirements and Non-Functional Requirements:

### Functional Requirements:

- Business Rules:
  - ✓ Business to Business
- Transaction correction, Modification, and cancellation:
  - ✓ Actions on Orders by the Clerk
- Administrative functions:
  - ✓ Add or Remove Employees
  - ✓ Handle the details of Employees and workers
  - ✓ Verification of Stocks, Orders at run-time
- Audit Tracking:
  - ✓ Google Maps to check the accuracy of the location
  - ✓ Order placed address
- Certification Requirements:
  - ✓ Certified License number of Clients or Pharmacies
  - ✓ Employees' Qualifications and certifications
- Reporting Requirements:
  - ✓ Reports submission on daily basis to Admin
- Historical Data:
  - ✓ It is easily possible to get past data through the list view from the system at anytime

## Non-Functional Requirements:

### Accessibility: -

The Application needs to be available to all users and needs to make sure that all the photos, videos, animations, and other media should have relevant text and that even a person with any kind of disability can use the application.

### Home Page: -

The Home page is the main important section of the application as users first experience the home page and it will be the same for all users, but functionality and authorization will be different according to the type of user account. For example Admin, Stock-Manager, and Order-Clerk.

### Usability: -

The usability of this application is very easy and smooth. This application will be able to work on any version of the system or device.

### Performance: -

Currently, this is the first version of this application and there will be upgraded versions in the upcoming time; thus, the quality of performance of the application would be improved and bug-free in the future.

## 5 - User Stories:

### Process of User Stories:

The User Stories are the short description of the requests of the users. These Requests are based on the users and what they wanted to perform and why they need to get some work done for that task to be done what will be the test requirements?

#### 1) Admin:

#### USER STORY (ADMIN):-

USER STORY ID	As a	I want	so that i	TEST CRETERIA
1	An Admin	To Add user tem	stock manager can add stock and product. Order Clerk can accept order and push them into the system	Must select user type
2	An Admin	To Manager Users	can manage the user details and credentials in the system	User must be added in system
3	An Admin	To View Stocks	can get idea about how much of stock is left in the inventory at the time	Stock Must be Updated
4	An Admin	To View Orders	can get idea about how much orders are placed within some particular time.	Orders Must be Updated.
5	An Admin	To Genrate Stock Report	can get gentral idea about how much stock we need in the inventory for the particulat time peroid Ex: 1 Month	NA
6	An Admin	To Genrate Order Report	can get idea about the sales of the company in past time.	NA

Team no.: 1  
Med-Life Pharma

## 2) Stock Manager:

### USER STORY (STOCK MANAGER):-

USER STORY ID	As a	I want	so that i	TEST CRETERIA
1	A Stock Manager	To Genrate orders	can place order to Supplier for the inventory	Must check the inventory before order
2	A Stock Manager	To Add Products	can add new products in the system and make them available for the orders.	Must add all the details of the product
3	A Stock Manager	To Modify Products	can modify the details and information of the product in the system	Product must be added
4	A Stock Manager	To Update Stock Listings	can update the stocks when recive the order from supplier or when the product get stocked out and make the stock upto date	NA
5	A Stock Manager	To Genrate Stock Report	can get gentai idea about how much stock we need in the inventory for the particulat time peroid Ex: 1 Month	NA



3) Order-Clerk:

## USER STORY (ORDER CLERK):-

USER STORY ID	As a	I want	so that i	TEST CRITERIA
1	A Order Clerk	To Add Orders	can place order for Clients and can be delivered on the time	Must Select Right client
2	A Order Clerk	To Manage Orders	can modify the details and information for the order that is already placed.	Order Must be Placed
3	A Order Clerk	To Generate Order Report	can get idea about the sales of the company in past time and orders placed in that time	N/A
4	A Order Clerk	To Add Suppliers	Can add supplier and Stock manager can place order to the supplier when the stock is needed.	Must Add all details of the supplier
5	A Order Clerk	To Modify Supplier	can modify the details and information for the Supplier that is already added in the system.	Supplier must be added in the system
6	A Order Clerk	To Add Client	can add client and place the order for the client when needed	Must Add all details of the Client
7	A Order Clerk	To Modify Client	can modify the details and information of the clients that is already added in the system.	Client must be added in the system

## 6 - Individual's role and responsibilities:

Application Development 2 is the course in which we've learned Android Studio under the guidance of a professor named 'Mohammad Ali Hasheminezhad' who has excellent knowledge of Android studio, Dart, Firebase, and other technologies which are included in this course. Here, 'Med-Life Pharma' is the complete working project created and developed equally under the team of three students: Hardik Vaviya, Deepali Patel, and Vikas Modi. This project is equally contributed to by the all-team members of Team No.: 1 in which all tasks and work were divided into three parts: Design, Coding, and Execution.

- Designing, Coding, and Execution part was divided into three divisions where three user groups following:
  1. Admin
  2. Stock-Manager
  3. Order-Clerk

The individual's role and responsibilities are to develop each part of the project as per decision then commit and push on GitHub project repositories. Each Group member has worked completely properly. Here, (Med-Life Pharma) this is the Outcome of the Hard-work and Dedication of all Teammates.

Thank you