**Medi-Trade**

**An E-Commerce focused on the trade of medical supplies and instruments**

Team:

* **Dhruv Punetha: UI/UX Designer, Database Administrator, Testing, Sales**
* **Gursimran Singh: Front-End Developer, Testing, After-sales, and Maintenance**
* **Harshit Sharma: Cloud Administrator, Finance Manager, Client Interaction, Team Manager, Sales, and Marketing**
* **Aviraj Project Manager, Back-End/Full-Stack Developer, Client Interaction, Sales, and Marketing**

**FEASIBILITY REPORT**

**Technical Feasibility Report: Personal Expense Management App**

**Introduction:**

The purpose of this report is to evaluate the technical feasibility of developing an E-commerce focused at the trade of medical supplies and instruments. Initially the software is being developed as a web-application, so users will be able to easily access the service at any time through any browser.

**Requirements:**

1. User registration and login
2. Figuring out the required product category.
3. Figuring out whether licensing is required or not for the particular purchase.
4. Finalizing the cart.
5. Filling out the details during checkout, such as address, license number, etc.
6. Integration with payment gateways (e.g., UPI) for online transactions.

**Technical Environment:**

The app will be developed for both iOS and Android platforms through their browsers. The app will store the user data in a cloud-based database such as Firebase or AWS.

**Technical Feasibility:**

Since the software is being developed using the following technologies:

1. HTML5, CSS, Bootstrap, JavaScript – For Front-end
2. MongoDb: For Database
3. AWS- For cloud services
4. Node.js, Express.js, React.js – For Back-end,

the app is technically feasible to develop as all the required features can be implemented using the chosen development tools and technologies. The cloud-based database will provide sufficient storage for the app's user data and can be easily scaled up as the number of users increases.

**Costs:**

The development costs will depend on the chosen development team, AWS services costs, domain costs, etc.

**Conclusion:**

The web-application is technically feasible to develop and can be built using the proposed technologies.

**Market Analysis Report: Personal Expense Management App**

**Market Overview:** The market for trade of medical supplies through e-commerce is expected to grow in coming times.

**Competitor Analysis:** Currently there is no such big competition for the proposed software. However, some big hospitals such as APPOLO, etc have their own internal manufacturing and trading units.

**Target Market:** The main targets for the proposed software would be small **scale** medical equipment’s sellers, hospitals, laboratories, etc for the initial phases. For the later stages it would be bigger scales such as manufacturers, big hospitals, etc. Finally, we can make partnerships with such big players of the market.

**Market Trends:** The trend in the personal expense management app market is towards offering more sophisticated features, such as advanced budgeting tools, investment tracking, and financial planning. Additionally, there is a growing trend towards offering features such as automatic categorization of transactions, real-time spending alerts, and integration with bank accounts.

**Market Growth:** The market capture for the software is expected to continue growing in the coming years, driven by the ease e-commerce provide for buying and selling products.

**Challenges:** The challenges may include lack of experience of the development team, resource constraints, etc.

\*\*\*\*\*

**Data-Flow-Diagrams**

User Credentials

User Login

0.0

1.0

**Level 0 Diagram**

User Phone number & Passcode

New user phone number

0.0

0.1

OLD User phone number

New user Credentials

0.2

User Credentials Saved to Database

Cart information

to cart

Register

Product added

User Credentials

1.0

Database

1.1

Bill Record

BILL

1.2

SUMMARY

Bank Servers

Payment VERIFICATION

1.3

LEVEL 1

**Stake-holders**

1. Sellers: Medical supplies manufacturers and sellers.
2. Buyers: Medical supplies buyers, example: Hospitals, Laboratories, etc.
3. Delivery and Logistic Service Providers
4. Banks and gateways: For providing online payment services.
5. Servers and Web service providers: For hosting the software and its sefrrvices.

**Gantt Chart**

