

## MY PERSONAL LIBRARY

**Shubham Bhardwaj<sup>1</sup>, Shashwat Shukla<sup>2</sup>, Dhananjay Sharma<sup>3</sup>**

*Department Of Computer Science & Engineering, United Institute Of Technology, Prayagraj, Uttar Pradesh, India*

**Abstract** - My Personal Library (MPL) App is a Kotlin based android app. This app helps the user to create a virtual library. It also helps the user to quickly search the book from his library and also scans the open internet in case there is no book in his personal library oriented topic and provides user comprehensive information about the book.

**Key Words:** app, book, library, online

### 1. INTRODUCTION

This is an era of talents and talent is growing in every field these days. Similarly there are very new writers who are searching for a platform where they can get their readers. The websites generally provide mixture of books so reader may sometimes get confused in searching their favourite one. Since, so many books are available sometime the user may start a book and gets bored in the middle of it and finds it a time waste. My Personal Library (MPL) App is a Kotlin based android app. This app helps the user to also scans the open internet in case there is no book in his personal library for intended topic and provides user comprehensive information about the book.

### 2. Body of Paper

My Personal Library App is a Kotlin based android app. This app helps the user to create a virtual library. It also helps the user to quickly search the book. The websites generally provide mixture of books so reader may sometimes get confused in searching their favourite one.

After comparing different types of models we have selected the best suited model as the spiral model for this project as our requirements are superior and it is a long developing project.

#### Spiral Model

Phases of Spiral Model :

1. **Objectives determination:** Requirements are gathered from the customers and the objectives are identified.

2. **Identify and resolve Risks:** During the second quadrant, all the possible solutions are evaluated to select the best possible solution.

3. **Development and validation:** During the third quadrant, the identified features are developed and verified through testing.

**4. Review and plan for the next Phase:** In the fourth quadrant, the Customers evaluate the so far developed version of the software.

### **Advantage Of Spiral Model**

We are using this Model for the following advantages:

- High amount of risk analysis hence, avoidance of Risk is enhanced.
- Good for large and mission-critical projects.
- Strong approval and documentation control
- Additional Functionality can be added at a later date.
- Software is produced early in the software life cycle

### **Requirement Analysis**

Requirement Analysis, also known as Requirement Engineering, is the process of defining user expectations for a new software being built. We analyze, refine, and scrutinize the gathered requirements to make consistent and unambiguous requirements. This activity reviews all requirements and may provide a graphical view of the entire system. After the completion of the analysis, it is expected that the understandability of the project may improve significantly.

### **Developer Requirement**

Following configurations are required for development:

#### **Hardware Requirements**

- Processor : Core i3, 2.30 GHz
- Operating System: Windows 10
- RAM: 4GB
- Database: SQLite
- Frontend Application: Kotlin
- Backend Application : XML Development Environment : IntelliJ Idea, Android Studio

#### **User Requirement**

Any user having the following essentials can access this website: 11

- Internet connection
- UserID and password

### **3. CONCLUSIONS**

This is the perfect app that provides information about books and also links for the books and makes readers more interested and passionate to read. It also has a recommending feature which recommends books according to their interest. It also has a favourite list feature through which users can add the book to their favourite list. Provision may be taken for further development in this app for future growth.

## ACKNOWLEDGEMENT

We would like to thank our principal Mr. Sanjay Srivastava and our HOD Mr. Abhishek Malviya for granting us the honour of being a member of project group, My Personal Library. This project helped us in doing a lot of research and made us enlightened with many new things.

We would like to thank Mr. Dhananjay Sharma for his invaluable help and guidance. We would like to express our deep sense of gratitude to our seniors for their important help and suggestions requirements. We would like to thank all members of CSE lab who have directly or indirectly contributed in my project work and maintained a friendly atmosphere in the lab. Finally We would like to thank our families and our friends for their constant moral support.

## REFERENCES

1. <https://kotlinlang.org/docs/android-overview.html>
  2. <https://github.com/JetBrains/kotlin>
  3. [https://developer.android.com/courses?gclid=Cj0KCQjwyYKUBhDJARIsAMj9lkHWejOVMvgMw6q7zpi9eb15FafbEnfnjyFrdsvsvLKttORmuZCGnpkaAkvNEALw\\_wcB](https://developer.android.com/courses?gclid=Cj0KCQjwyYKUBhDJARIsAMj9lkHWejOVMvgMw6q7zpi9eb15FafbEnfnjyFrdsvsvLKttORmuZCGnpkaAkvNEALw_wcB)
-