Project Idea: **Track your mail box**

A picture containing text, file

Description automatically generated

**Abstract:**

The main intention of this project application is to solve the problem which I am facing and which is also common to many people living in apartments in Overland park, That is **“Frequent Checking of Mailboxes for letters by visiting Mail Center ”**.A family or group of students or people living in an apartment flat receives different letters from Banks, Universities, Insurance companies and various other services. Since we receive these letters randomly not periodically ,every time one of the persons of flat , either owner or other person in flat has to frequently visit the mail center ,open his respective flat’s mailbox and check for any letters .If there are no letters he has to revisit on another day and check the mailbox for any new letters.Some times person has to travel multiple times in a day ,like if he collects one letter in the morning and receive few more letters in later hours in a day he has to revisit the mail center. Thus people are loosing their valuable time in random visits .So the aim of this application is to save time of people by notifying them when their respective mailbox is full. Thus avoiding random visits to mail center. Just visit once when your inbox is full and collect all received letters from mailbox.

We also want to implement some interesting features like “***Decide the mailbox Full count***” .It means users can set, upon receiving certain number of letters, say 4,5 or 6 in his mail box ,only then he receives Inbox full notification. This feature helps user to collect letters in bulk instead of collecting one or two letters. So user are notified only when letters count in mailbox is more than or equal to the configured *mailbox full count*. Second feature is ,”***Notify me after Some days***”(like after 7days,10 days etc). The advantage of this feature is ,if the mailbox receives only few letters in a week which is less than the configured full count. The users should still be notified .Thus we can avoid too much of delay in collecting all the letters. Therefore if only one or two letters are received ,user will still be notified but only after the period of configured days. If no letters received user don’t receive any notification.

We are also planning to build different other screens in application ,one for admin to create accounts for users / owners of apartment flats. Another screen for the person operates the Mail center, the one responsible to fill the mailboxes with letters. User screen through which user can login into application and change configurations as per his interests, View the brief details about letters his flat members received like from address and to whom , when was letter received .We want to build the application using Servlets, JSPs following MVC architecture , Use MYSQL database for storage and perform necessary CRUD operations on it as per application functional flow. We plan to improve this application using spring boot , micro services once we accomplish the above discussed functionalities.