Software Requirement Specification

For

TrackMyMail

Version 1.0

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1. Product Vision

1.1 Purpose

To create a webapp that lists all the matrices of an email like number of unread mail(s), read mail(s), responded mail(s). Also in the webapp if the count of unread mails are going higher, show warning message or highlight Notifications.

1.2 Problem Statement

Due to some constraints, the respective person who handles the mailing operation of Big Brain Application is not able to Reply or Check the incoming mail(s) from their respective client(s). This can be an issue of concerned and need to be overcome.

1.3 Proposed Solution

By developing a Web Application which will be extracting the required Fields from the Google server which includes:

- Total Number of mail(s)
- Total Number of Unread mail(s)
- Total Number of Responded mail(s)

And displaying it on the web browser so that the user(s) will be up-to-date with the received mail(s).

Also if the incoming mail contains more than one recipient and if one of the recipient responds back to the sender without having other recipients in the cc'd list should also be considered as responded.

2. Use Cases

2.1 User makes Registration with the Application

Title	User Registration
Description	User must have provision to register by entering details such as User ID, Password, Confirm password *User ID need not be mail account only User ID maximum length can be 30 Password length in the range 6-20 characters must be acceptable
Pre-Condition	Availability of network for the register to happen
Success Scenario	• User is registered successfully • User to be notified if User ID or password length is out of the range • User to be notified if the user is already a registered one
Failure Scenario	User fails to register
Priority	High

2.2 User Login with the Registered account

Title	User Login
Description	User must have the provision to login to their registered account User must have the option to keep logged in
Pre-Condition	Availability of network for the login to happen
Success Scenario	• User is logged in successfully • User to be notified if User ID or password is wrong
Failure Scenario	User fails to log in
Priority	High

2.3 User Sign in with Gmail account

Title	Sign in to Gmail
Description	User must have the provision to Sign in to their existing Gmail account with which the user needs to keep track of the account
Pre-Condition	Availability of network for the Sign in to happen
Success Scenario	• User Signed in to the gmail account successfully • User to be notified if gmail account does not exist
Failure Scenario	User fails to sign in to Gmail account
Priority	High

3. Requirement Specification

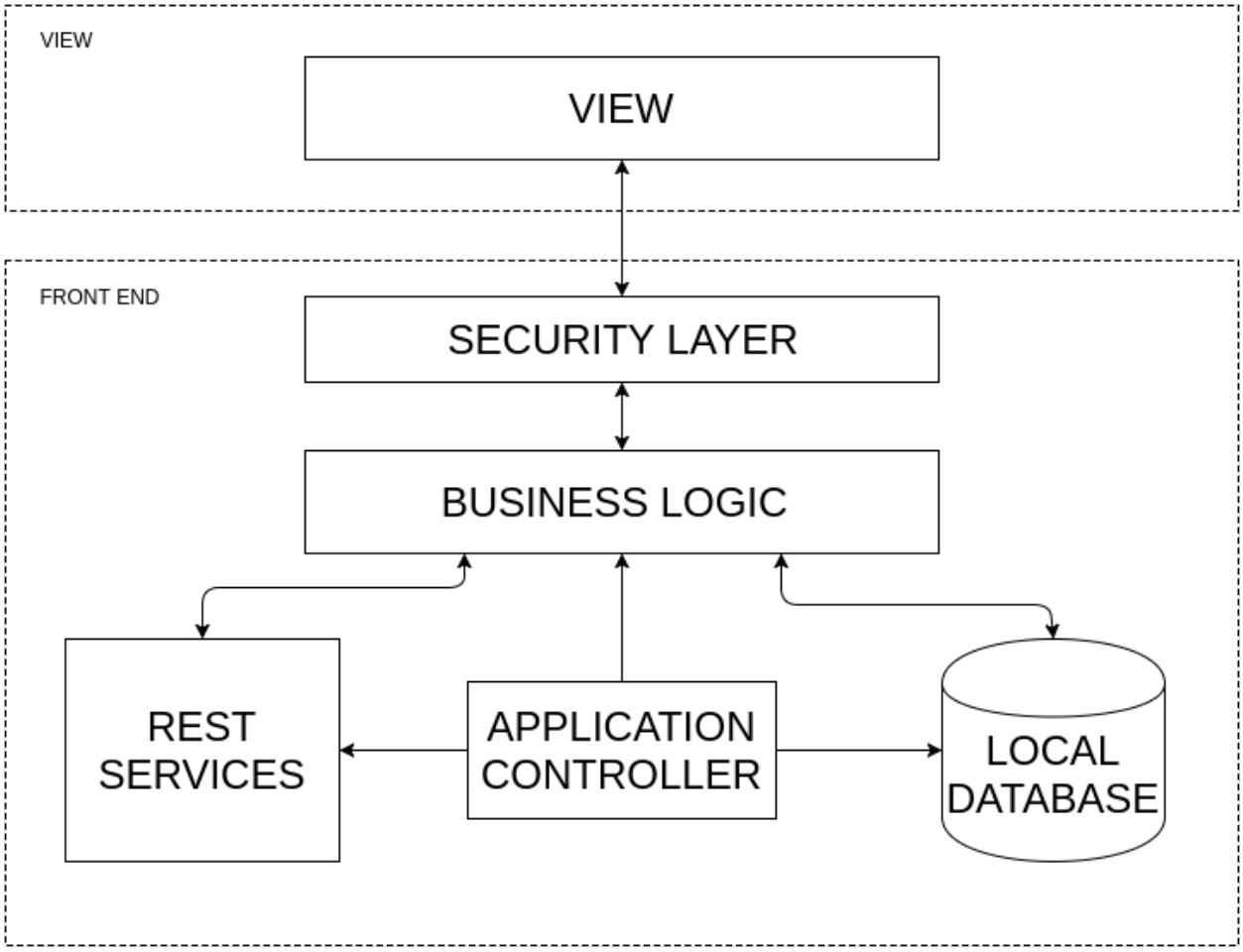
3.1 Software Requirements

- Operating System: Windows 8 and above / Ubuntu
- Browser: Google Chrome
- Tomcat Web Server

3.2 Hardware Requirements

- Processor: Intel i3 and above
- RAM: 1GB and above
- Internet Connectivity

4. System Architecture



View: This is the user interface where the input is entered and output is displayed.

Security Layer: The webapp demands the credentials of a Razorthink employee who wish to use the app.The security layer to check whether the user is authorised.

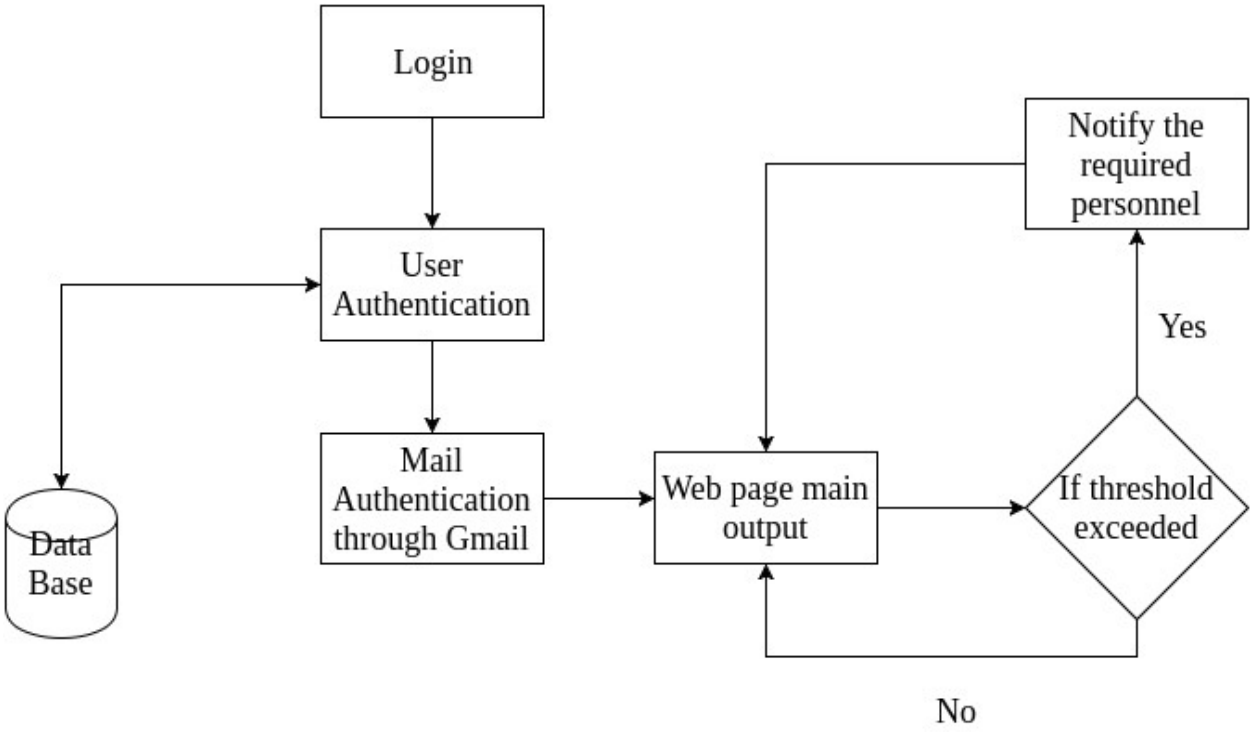
Business Logic: All the algorithm and logic we use for the application resides here.

Local database: The credentials of the authorised users are stored in this database.The security layer accesses the database to verify authorisation.

Rest Services: We use the Gmail Api for business logic.The connection between the business logic and the Gmail server is handled by rest services.

Application Controller: It controls all the individual modules in the architecture.

5. Flow Diagrams



Login: The user can log in to the application using his/her user id and password which is validated from the database.

User Authentication: The credentials user provides is checked in the local database and only then user could use the Webapp.

Database: The credentials of the users are saved inside the database and the users in the database will have access to the Webapp.

Mail Authentication through Gmail: The mail id and password of the mail to be tracked is given here.It is validated by gmail.

Webpage Main Output: The output of the App is shown here.

Threshold: A threshold is set for the number of unread mails.If the number of unread mails exceed the limit , a notification is sent to the concerned personnel.