

Project Report –Adaptive Email App

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1. INTRODUCTION :

1.1. Overview :-

The Adaptive Email App is a project aimed at creating an email application that can adapt to the user's preferences and behaviour to provide a personalized email experience.

1.2. Purpose :-

The purpose of an Adaptive Email App project could be to create an email application that can learn and adapt to a user's email habits and preferences. By analysing the user's behaviour, the application could provide customized recommendations and suggestions to help the user manage their inbox more efficiently.

Overall, the purpose of an adaptive email app project would be to create a more efficient and personalized email experience for users.

2. PROBLEM DEFINITION & DESIGN THINKING :

2.1. Empathy Map:-

Template

Empathy map

Use this framework to develop a deep, shared understanding and empathy for other people. An empathy map helps describe the aspects of a user's experience, needs and pain points, to quickly understand your users' experience and mindset.

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Need some inspiration?

See a finished version of this template to kickstart your work.

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1

Build empathy

The information you add here should be representative of the observations and research you've done about your users.

Says

What have we heard them say?
What can we imagine them saying?

Give them a name and a portrait to empathize with your persona.

Thinks

What are their wants, needs, hopes, and dreams? What other thoughts might influence their behavior?

Does

What behavior have we observed?
What can we imagine them doing?

Feels

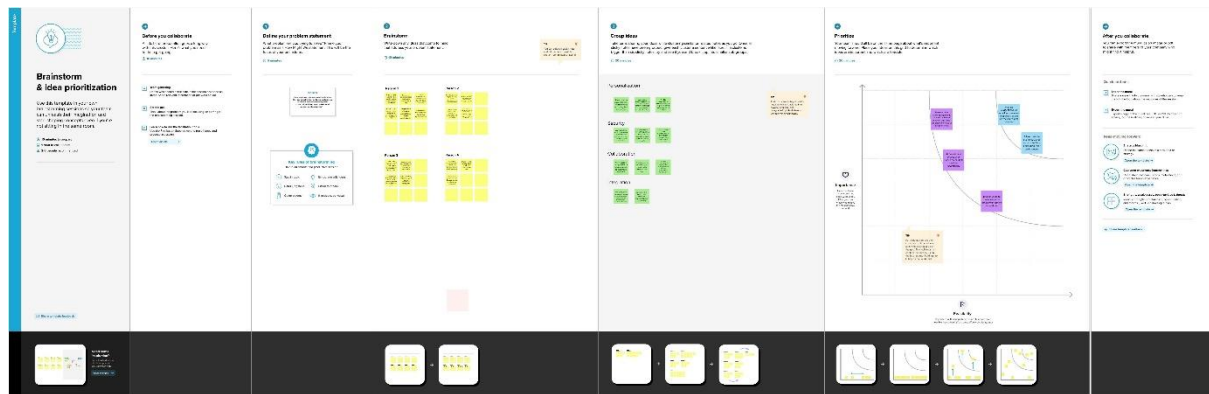
What are their fears, frustrations, and anxieties? What other feelings might influence their behavior?

→

→

→

2.2. Ideation & Brainstorming Map:-



3. RESULT :

Login page :-



Login

Username
ajith25

Password
.....

Login

[Sign up](#)

[Forget password?](#)

Register Page :-

4:09

Voi 4G LTE1 92%



Register

Username

ajith25

Email

example@gmail.com

Password

.....

Register

Have an account? [Log in](#)

Main Page :-

Home Screen



Send Email

View Emails

4:13

Voi 4G
LTE1 92%

Send Mail

Receiver Email-Id

Email address
abc@gmail.com

Mail Subject

Subject

Mail Body

Body

Send Email

ViewMail Page :-

View Mails

Receiver_Mail: ajithbabukalaiselvan@gmail.com

Subject: summa

Body: hello vanakkam daa mapla

Receiver_Mail: ajithbabukalaiselvan@gmail.com

Subject: summa

Body: hello vanakkam daa mapla

Receiver_Mail: ajithbabukalaiselvan@gmail.com

Subject: summa

Body: hello vanakkam daa mapla

Receiver_Mail: ajithbabukalaiselvan@gmail.com

Subject: summa

Body: hello vanakkam daa mapla

Receiver_Mail: ajithbabukalaiselvan@gmail.com

Subject: Android App Development

Body: Adaptive Email App Project Test

4. ADVANTAGES & DISADVANTAGES :

Advantages:

- **Personalized email experience:** The app uses machine learning algorithms to provide a personalized email experience, which can save users time and increase productivity.
- **Increased efficiency:** The app can prioritize emails based on their importance, allowing users to focus on the most critical messages first.
- **Better organization:** The app can organize emails into categories, making it easier for users to find specific messages.
- **Improved communication:** The app can help users communicate more effectively by suggesting responses and providing email templates.
- **Time-saving:** The app can save users time by automating repetitive tasks such as filing and labeling emails.

Disadvantages:

- **Privacy concerns:** The app may raise privacy concerns as it requires access to users' email accounts and personal data.
- **Dependence on technology:** Users may become too reliant on the app, leading to a loss of critical thinking and decision-making skills.

- **Technical issues:** The app may encounter technical issues such as bugs and glitches that could affect its performance.
- **Cost:** The app may require a subscription fee or in-app purchases, making it less accessible to some users.
- **Learning curve:** Users may need to invest time in learning how to use the app effectively, which could be a barrier for some.

5. APPLICATIONS :

- **Business email management:** The Adaptive Email App project can be used by businesses to manage their email communications more efficiently, with features such as personalized email experiences and better organization.
- **Personal email management:** Individuals can use the Adaptive Email App to manage their personal email accounts, with features such as improved communication and time-saving capabilities.
- **Educational institutions:** Educational institutions can use the Adaptive Email App to manage student and faculty email accounts, with features such as personalized email experiences and improved communication.
- **Non-profit organizations:** Non-profit organizations can use the Adaptive Email App to manage their email communications with donors, volunteers, and other stakeholders, with features such as increased efficiency and better organization.
- **Government agencies:** Government agencies can use the Adaptive Email App to manage their email communications with citizens, with features such as improved communication and time-saving capabilities.

6. CONCLUSION :

In conclusion, the Adaptive Email App project aims to create a personalized email experience for users by utilizing machine learning algorithms to categorize and prioritize emails based on user behaviour.

The app will also provide features such as email templates, scheduling, and reminders to improve productivity and efficiency.

With the increasing importance of email communication in our daily lives, this app has the potential to revolutionize the way we manage our inboxes. By adapting to individual user preferences and behaviour, the Adaptive Email App can provide a more streamlined and effective email experience, ultimately saving users time and reducing stress.

7. FUTURE SCOPE :

The future scope of the Adaptive Email App project is vast and promising. Some of the potential areas for development and improvement include:

- **Integration with other productivity tools:** The app can be integrated with other productivity tools such as calendars, to-do lists, and project management software to provide a comprehensive productivity solution.
- **Multi-platform support:** The app can be developed for multiple platforms such as desktops, tablets, and smartphones to cater to the needs of users across different devices.
- **Advanced machine learning algorithms:** The app can use more advanced machine learning algorithms to provide even more personalized email experiences for users.
- **Voice recognition technology:** The app can incorporate voice recognition technology to enable users to dictate and send emails hands-free.

- **Email analytics:** The app can provide email analytics to help users track their email habits and identify areas for improvement.
- **Integration with social media:** The app can integrate with social media platforms to provide a more holistic view of communication across different channels.

Overall, the Adaptive Email App project has the potential to evolve into a comprehensive productivity tool that can revolutionize the way we manage our email communication.

8. APPENDIX :

Source Code

//Android Manifest.xml file

<https://github.com/ajith2506/AdaptiveEmailApp/blob/4e5014d6422fcd332a85feced65d54ee8a2fcc15/AdaptiveEmailApp-main/app/src/main/AndroidManifest.xml>

//User.kt

<https://github.com/ajith2506/AdaptiveEmailApp/blob/4e5014d6422fcd332a85feced65d54ee8a2fcc15/AdaptiveEmailApp-main/app/src/main/java/com/example/emailapplication/User.kt>

//UserDao.kt

<https://github.com/ajith2506/AdaptiveEmailApp/blob/4e5014d6422fcd332a85feced65d54ee8a2fcc15/AdaptiveEmailApp-main/app/src/main/java/com/example/emailapplication/UserDao.kt>

// UserDatabase.kt

<https://github.com/ajith2506/AdaptiveEmailApp/blob/4e5014d6422fcd332a85feced65d54ee8a2fcc15/AdaptiveEmailApp-main/app/src/main/java/com/example/emailapplication/UserDatabase.kt>

//UserDatabaseHelper.kt

<https://github.com/ajith2506/AdaptiveEmailApp/blob/4e5014d6422fcd332a85feced65d54ee8a2fcc15/AdaptiveEmailApp-main/app/src/main/java/com/example/emailapplication/UserDatabaseHelper.kt>

//Email.kt

<https://github.com/ajith2506/AdaptiveEmailApp/blob/4e5014d6422fcd332a85feced65d54ee8a2fcc15/AdaptiveEmailApp-main/app/src/main/java/com/example/emailapplication/Email.kt>

//EmailDao.kt

<https://github.com/ajith2506/AdaptiveEmailApp/blob/4e5014d6422fcd332a85feced65d54ee8a2fcc15/AdaptiveEmailApp-main/app/src/main/java/com/example/emailapplication/EmailDao.kt>

//EmailDatabase.kt

<https://github.com/ajith2506/AdaptiveEmailApp/blob/4e5014d6422fcd332a85feced65d54ee8a2fcc15/AdaptiveEmailApp-main/app/src/main/java/com/example/emailapplication/EmailDatabase.kt>

//EmailDatabaseHelper.kt

<https://github.com/ajith2506/AdaptiveEmailApp/blob/4e5014d6422fcd332a85feced65d54ee8a2fcc15/AdaptiveEmailApp-main/app/src/main/java/com/example/emailapplication/EmailDatabaseHelper.kt>

//LoginActivity.kt

<https://github.com/ajith2506/AdaptiveEmailApp/blob/4e5014d6422fcd332a85feced65d54ee8a2fcc15/AdaptiveEmailApp-main/app/src/main/java/com/example/emailapplication/LoginActivity.kt>

//RegisterActivity.kt

<https://github.com/ajith2506/AdaptiveEmailApp/blob/4e5014d6422fcd332a85feced65d54ee8a2fcc15/AdaptiveEmailApp-main/app/src/main/java/com/example/emailapplication/RegisterActivity.kt>

//MainActivity.kt

<https://github.com/ajith2506/AdaptiveEmailApp/blob/4e5014d6422fcd332a85feced65d54ee8a2fcc15/AdaptiveEmailApp-main/app/src/main/java/com/example/emailapplication/MainActivity.kt>

//SendMailActivity.kt

<https://github.com/ajith2506/AdaptiveEmailApp/blob/4e5014d6422fcd332a85feced65d54ee8a2fcc15/AdaptiveEmailApp-main/app/src/main/java/com/example/emailapplication/SendMailActivity.kt>

//ViewMailActivity.kt

<https://github.com/ajith2506/AdaptiveEmailApp/blob/4e5014d6422fcd332a85feced65d54ee8a2fcc15/AdaptiveEmailApp-main/app/src/main/java/com/example/emailapplication/ViewMailActivity.kt>