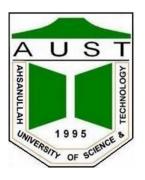
## AHSANULLAH UNIVERSITY OF SCIENCE & TECHNOLOGY

### DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



### SUICIDE PREVENTION APPLICATION

#### Software Development III [CSE 2200]

#### **Submitted to:**

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#### **ABSTRACT**

The project titled "Suicide Prevention Application" is a Bangladesh-specific pocket suicide prevention resource, packed with essential information and methods to keep you safe in a crisis. This application can be used by the user if he or she is contemplating suicide or is concerned about someone else who could be contemplating suicide. This project will be developed in Android Studio. The name of the application will be "Hope Box".

In a nutshell, the main purpose of this project is to learn Software Development using KOTLIN and Java with the help of Android Studio Software. By developing this application, we will also be able to promote awareness of suicide prevention and eliminate the stigma associated with suicide.

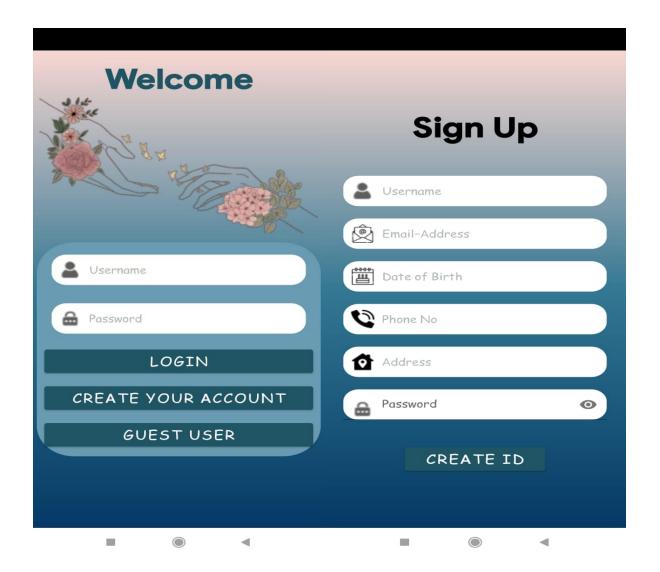
#### **Software Platform:**

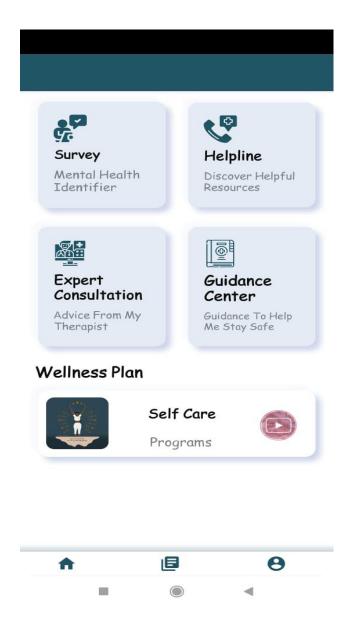
- > The project will be developed using KOTLIN and Java in Windows OS
- ➤ Android Studio

#### **Identification of Functional Requirements:**

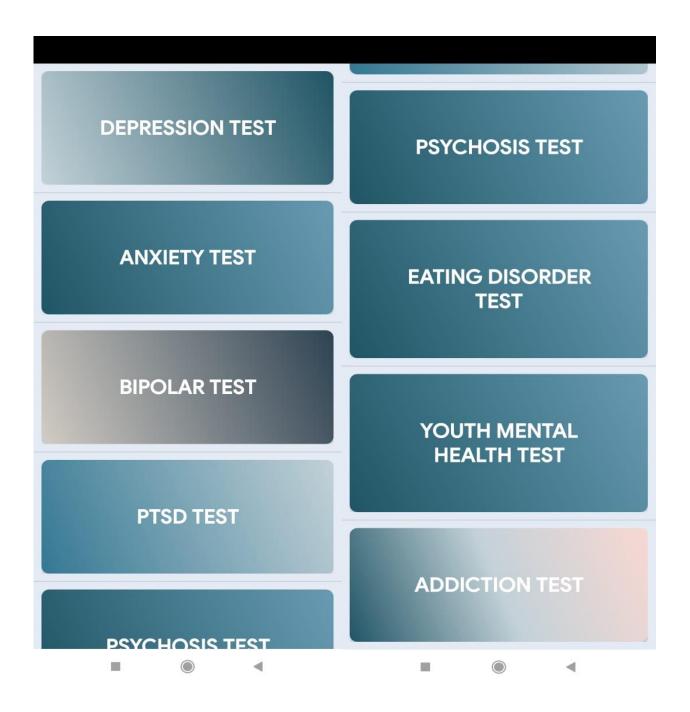


❖ <u>User Login and Signup:</u> This feature helps to register or sign in a new user. Here a user can sign in by providing name, Email, password, birthdate, address etc. information. After providing valid information a new user can be signed in. User details are saved to firebase Realtime database and is used for further application needs.



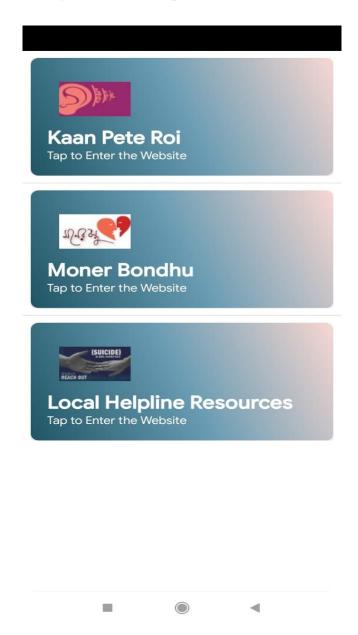


\*Identify Your Mental Health: This feature will provide medically evaluated mental health articles and quizzes to those who are anxious about their mental health. The free quizzes will enable the user to take an active role in his or her own health. Each screening test is intended to provide rapid and anonymous feedback. Here we have used ListView approach to create different types of mental health tests. Also, we have connected those lists with URL. By doing this, when the user taps on one of the items of the list it will open the web page of the test.



**Helpline:** After completing the tests and learning about their mental health problem, or if they are feeling suicidal or powerless, the user can use this option to receive instant support, local resources, and emergency contacts. Here we have used ListView approach with image to add different

helpline resources. Also, we have connected those lists with URL. By doing this, when the user taps on one of the items of the list it will open the web page of those emergency local help resources.



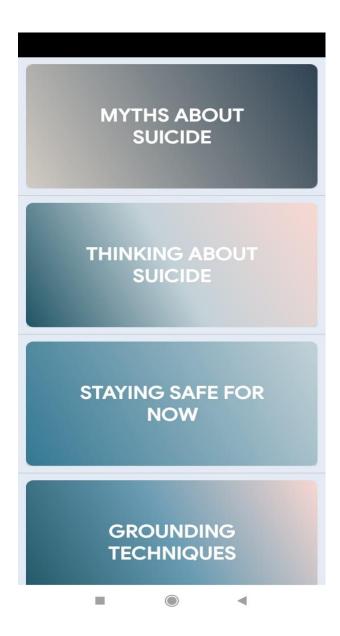
**Expert Consultation:** This function will assist the user in obtaining professional advice depending on their mental health situation. Users will be able to see real-time consultation videos with psychologists, therapists, and counselors here. Here we have used ListView approach with image to add different the list of professional mental health help resources. Also, we have

connected those lists with URL. By doing this, when the user taps on one of the items of the list it will open the web page of those professional mental health help resources.



❖ Guidance Center: This feature will assist the user in learning a great deal about the myths surrounding suicide and depression, as well as teaching them grounded ways to manage with their fear, pain, and emotions. It will also teach the user the significance of self-care and self-love. Here we have

used ListView approach to create different items. Also, we have connected those lists with URL. By doing this, when the user taps on one of the items of the list it will open the web page of those items.

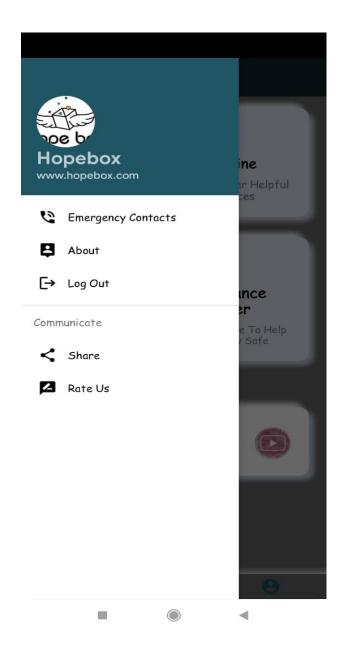


\*Your Wellness Plan: We have created this feature using Recyclerview. Here the user will be able to access to a self-care plan which

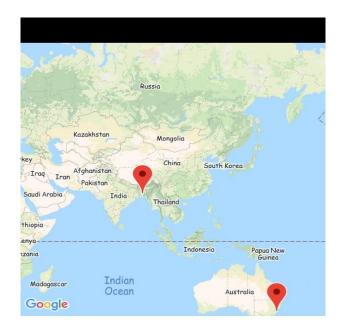
includes some sleeping techniques, meditating techniques, breathing techniques and mental health improvement counselling.

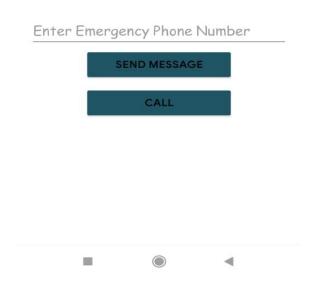


\*Navigation Drawer: We have created this particular feature using drawer layout. Log out option, about option, share option, and Emergency Call Service option is added in this feature.



**Emergency Call Service:** Using this feature a distressed user can send their location through message and also they can call their emergency contacts too. We have added the google map in this feature to send the location of the user to their emergency contacts correctly. We have created this feature using fragments.





\*Newsfeed: In the newsfeed, user will be able to view the motivational quote wallpapers which will help them to be motivated for their daily life. We have created this feature using RecyclerView.



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SOME HEAVY SHIT.

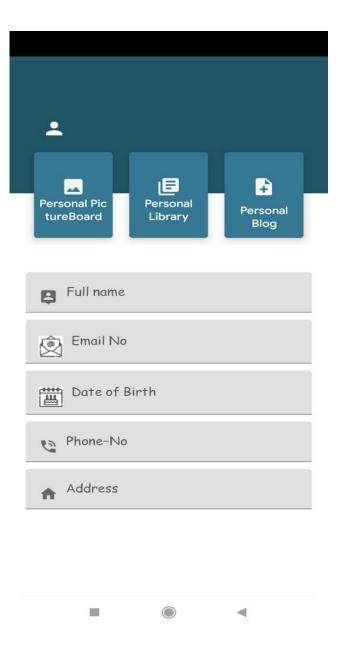
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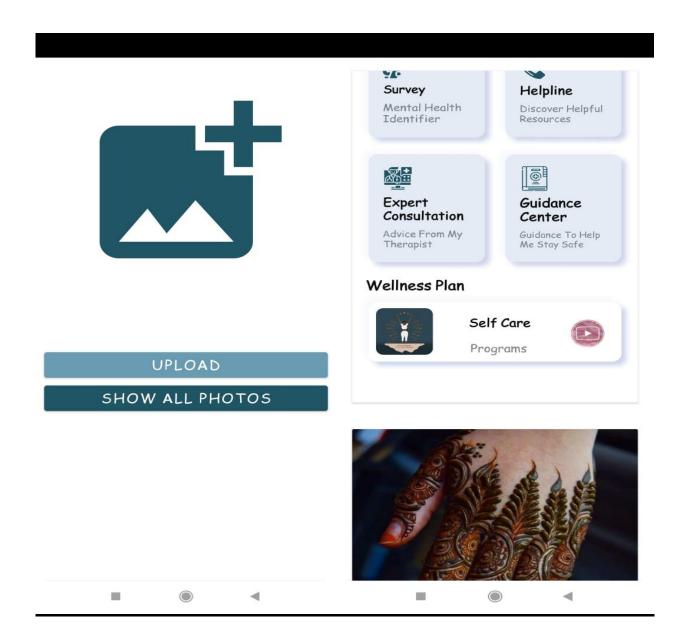
DON'T FORGET
YOU'RE HUMAN. IT'S
OK TO HAVE A
MELTDOWN. JUST
DON'T UNPACK AND
LIVE THERE. CRY IT
OUT. THEN REFOCUS
ON WHERE YOU'RE
HEADED

\* My Hope Box: This feature will allow users to construct their own hope box, which will include creating a picture board, adding their favorite books in their personal library, and also writing notes in their own personal blog. And this particular feature was created using material card view.



♣ <u>User Profile:</u> In My Hope Box, we have added the user information which were fetched from the database when a user signed up on our application.

**Personal Picture Board:** We used cardview to create this option.



**Personal Library:** We used listview to create this feature.



**♣ Personal Blog:** We used recyclerview to create this feature





# Table 01: Identifier and Priority for Software Requirements

#	Requirement	Priority
R1	User Login	High
R2	Identify Your Mental Health	Medium
R3	Helpline	High
R4	Expert Consultation	High
R5	Guidance Center	High
R6	Navigation Drawer	High
R7	Emergency Call Service	High
R8	Newsfeed	Low
R9	My Hope Box	High
R10	Your Wellness Plan	High