SPARK4MIND



Team:: 4

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I. Introduction

Stress within your comfort zone can help you perform under pressure, motivate you to do your best, even keep you safe when danger looms. But when stress becomes overwhelming, it can damage your mood and relationships, and lead to a host of serious mental and physical health problems. The trouble is that modern life is so full of frustrations, deadlines, and demands that many of us don't even realize how stressed we are. By recognizing the symptoms and causes of stress, you can take the first steps to reducing its harmful effects and improving your quality of life.

This application will help users cope up the stress with spending 10-15 minutes with this stress buster application. This application will provide user the refreshing 10-15 minutes which would help them better concentrate on their job or studies.

This application will take a stress test of the user and based on the inputs provided by the user, it will calculate the level of stress. User can further play games, watch funny videos, yoga exercises, watch motivational videos, listen to some soothing music to get rid of the stress. Based on multiple usage, user will be able to view their own progress graph and give feedback based on it.

II. Project Objectives and Features

Overall goal

Makes the mind and soul of the application user peaceful and stress free.

Specific objectives

When user is under lot of pressure, frustration, workload, personal or professional issues the objective of this application is to relieve the stress of users within 10-15 minutes. This application will help users to know the stress level and help users cope up the stress with some videos, songs, games, yoga exercises, classes, news, articles, books. Idea Inspired by TED talk, idea worth Spreading, "All it takes is 10 mindful minutes" by Andy Puddicombe.

Specific features

- > Stress level tester
- ➤ Interactive stress-reliever games
- Structured and Proven weekly course work for stress-free and more-success life
- Medical brain wave music according to user focus improvement
- Motivation video tailored specific to user
- Yoga or Mediation training classes
- Books
- News and Articles
- Feedback

• Significance

Being human being in this busy world is a little difficult one but being a successful human being in this world is more difficult than climbing the Mount Everest. To be successful, we need to be stress-free, worry-less, focus-more and train-more. This is where our App idea comes into play so that a human being can climb the ladder of success and become a good human being.

III. Project Plan

Schedule for the four different increments

Increment 1: Launch page

Login page

Increment 2: Integrating YouTube videos

Motivational videos

Funny videos

Yoga videos

o Stress relieving exercise videos

Integrating soothing music

Increment 3: Music Player

NYTimes API

Articles API

Feedback form

Increment 4:

Books API

Game

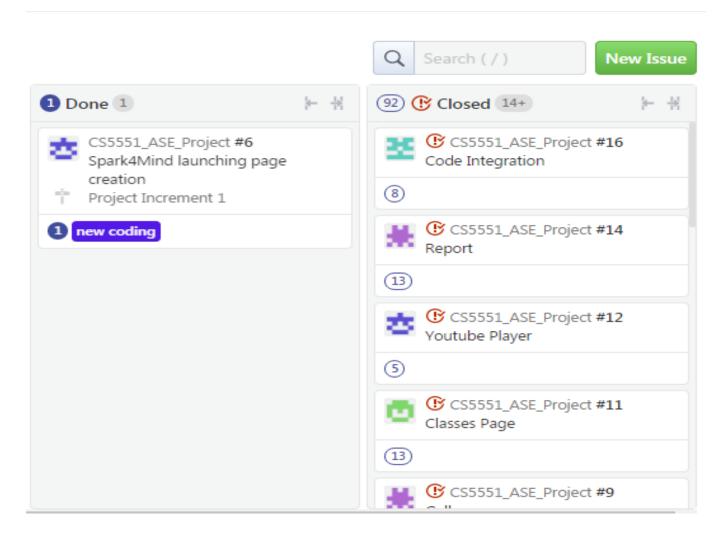
Deployment

Testing

Stories (Issues): Scenario & Use case specification

- The user first logs in to the application or signs up if not registered.
- Depending on the user's stress level user can select among many stress relieving options like: Games, Music, Videos, Books, Articles, News, Classes to join.
- If the user selects videos, user will have various options like yoga exercises, inspirational talks, music video etc.
- Later on, user can provide feedbacks for the application.
- User logs out of the application and is stress free!

Project Timelines, Members, Task Responsibility



Burndown chart



IV. <u>Increment Report</u>

Detailed Design of Features

Wireframes

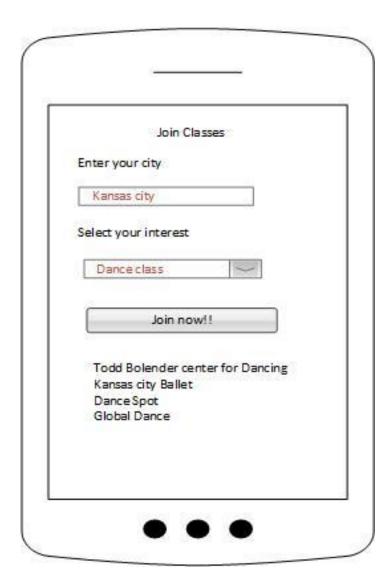
i) Wireframe for Login page



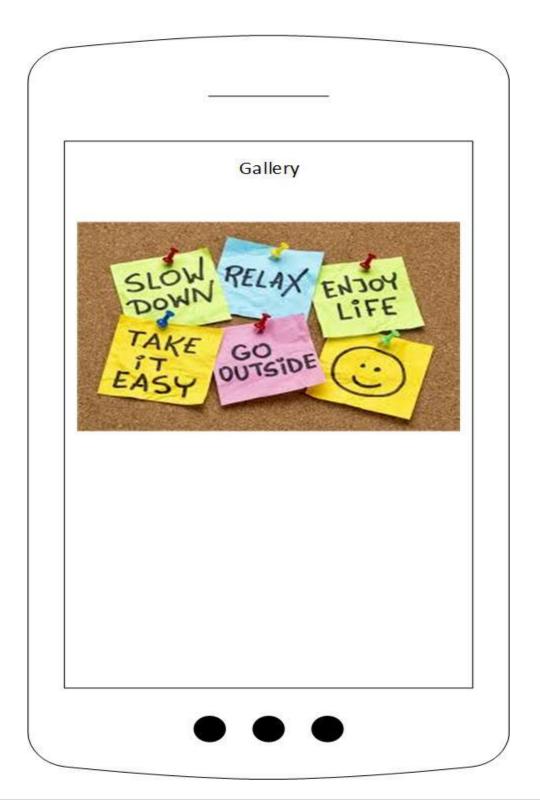
ii) Wireframe for Registration page



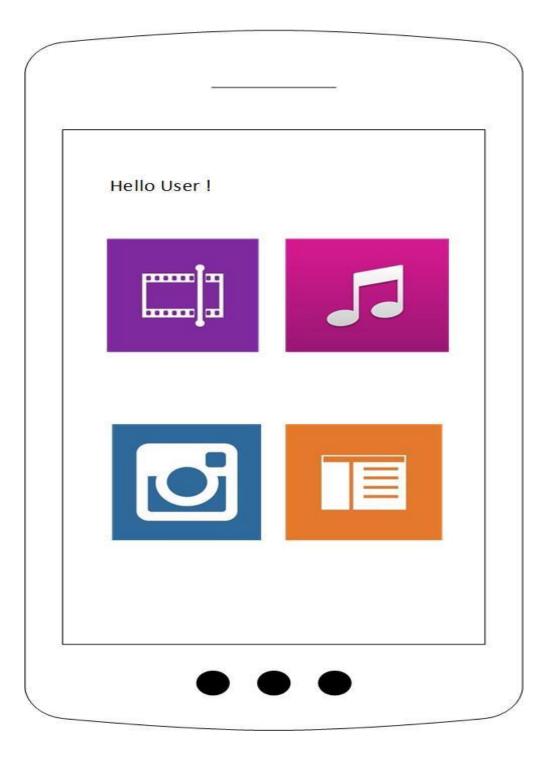
iii) Wireframe for Class page



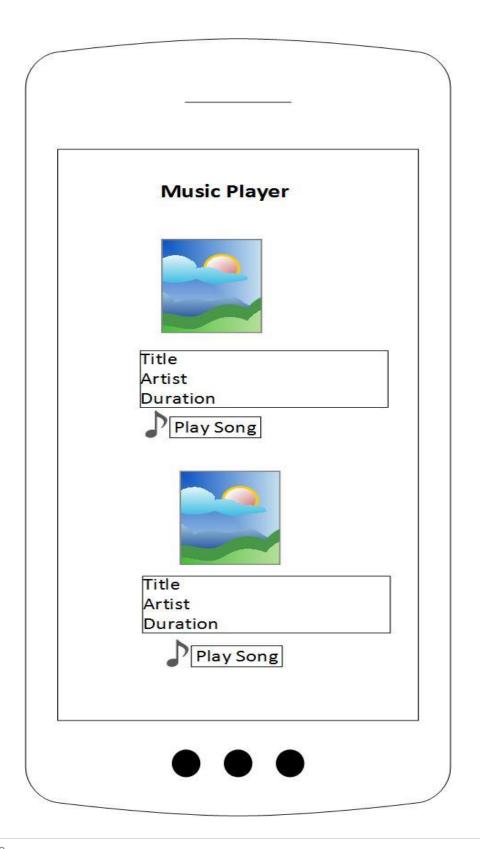
iv) Wireframe for Gallery page



vii) Wireframe for Home page



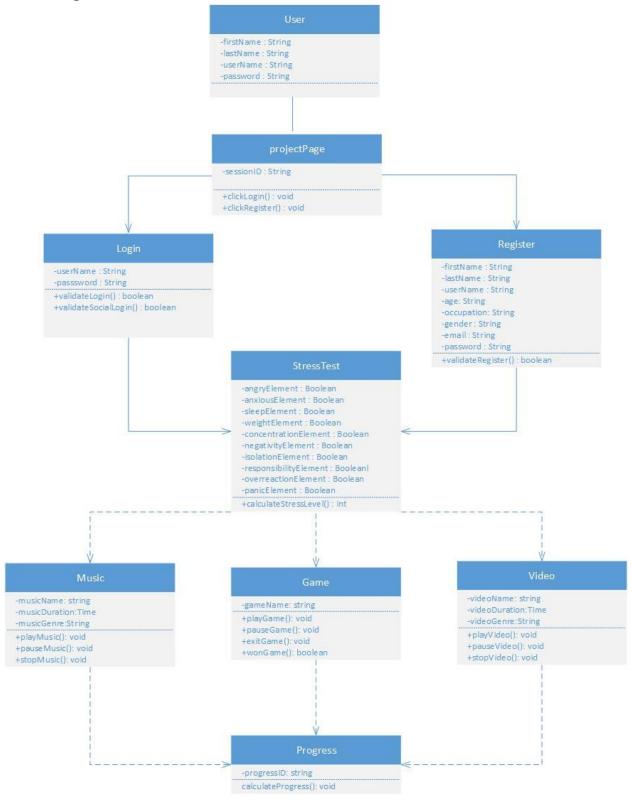
viii) Wireframe for Music Player



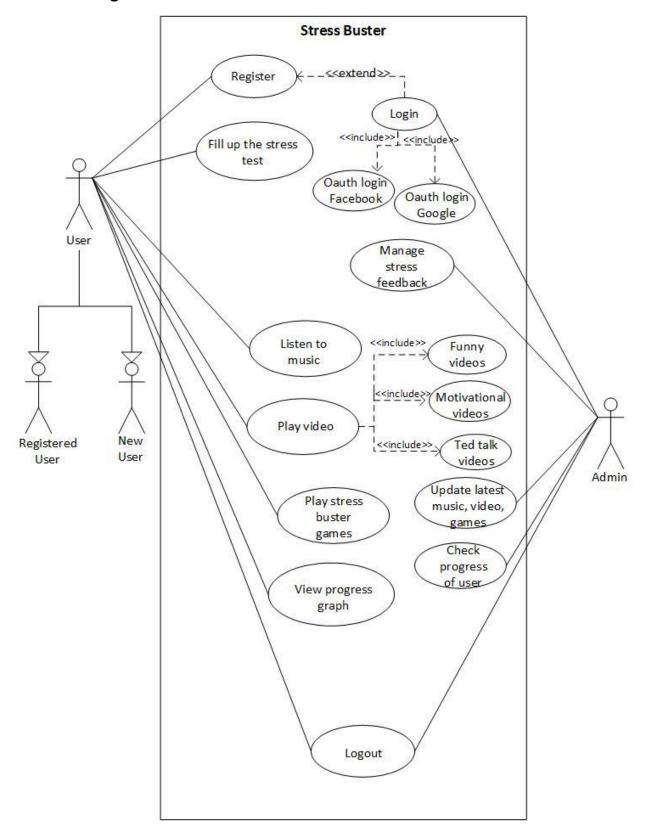
ix) Wireframe for Feedback



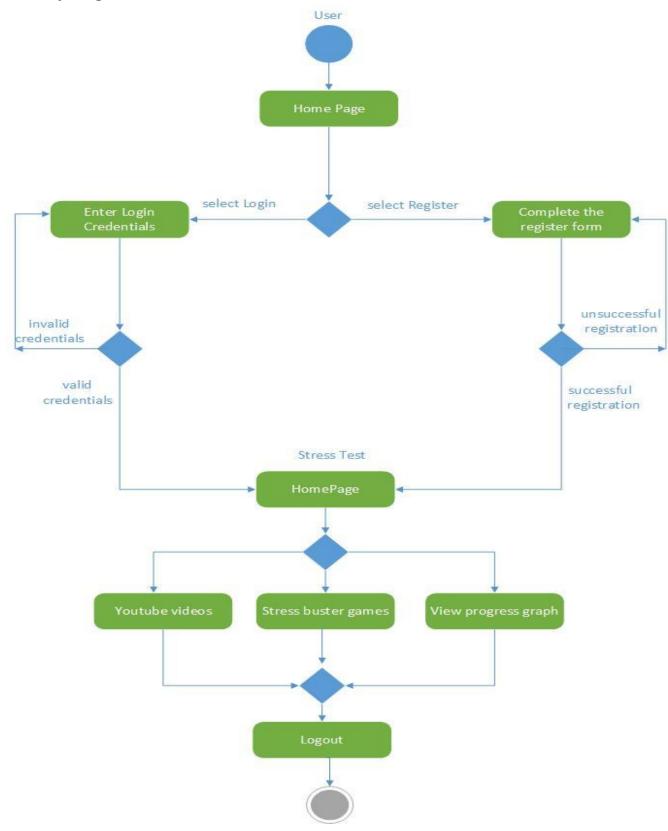
Class Diagram



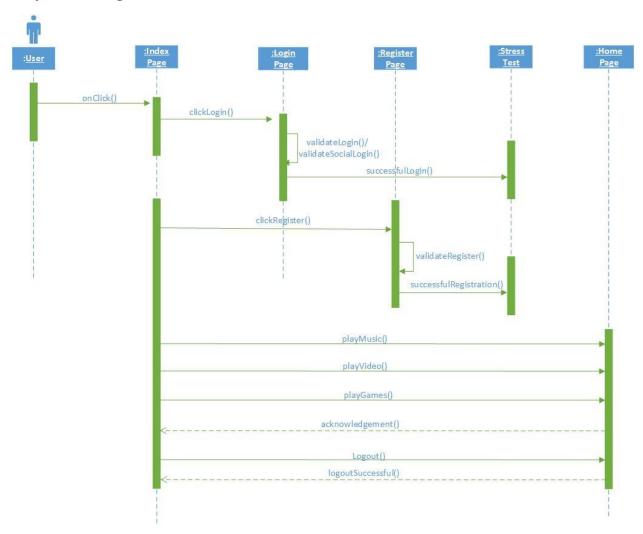
Use Case Diagram



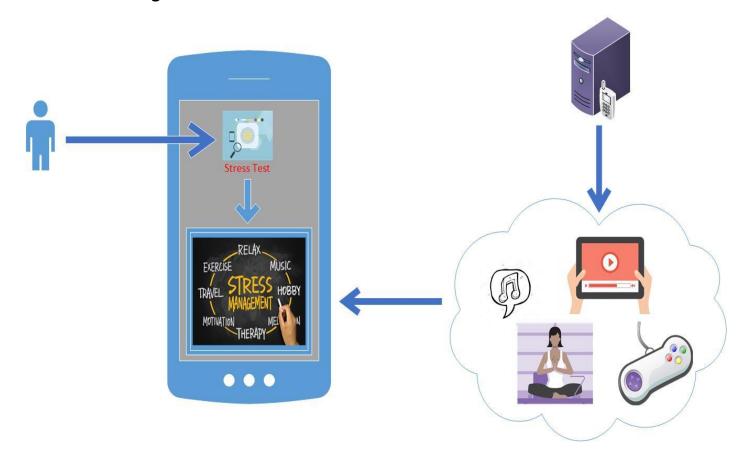
Activity Diagram



Sequence Diagram

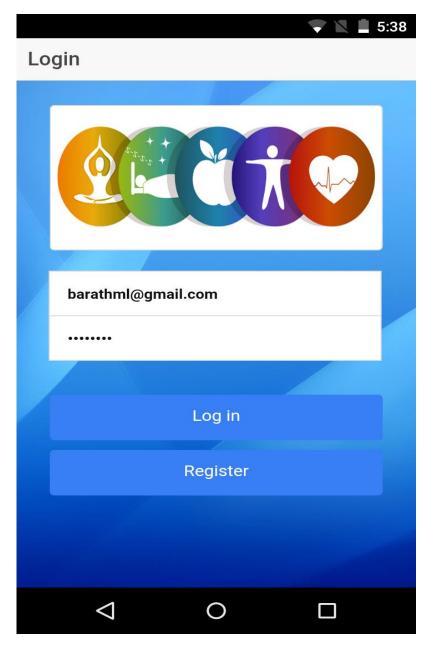


Architecture Diagram

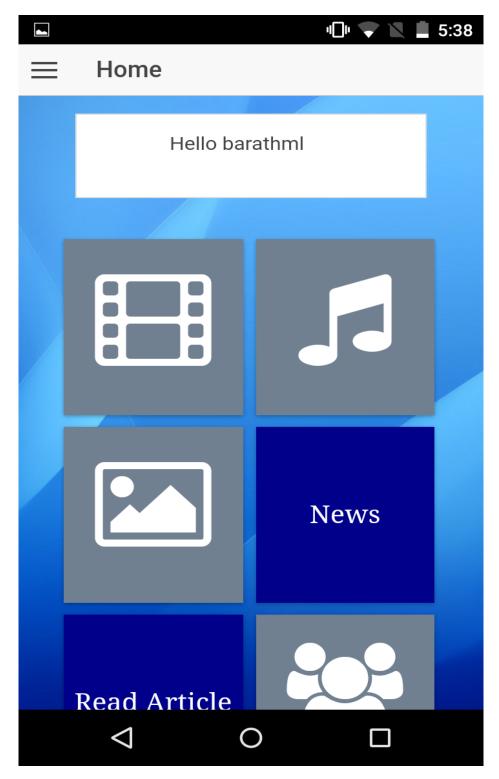


V. <u>Implementation</u>

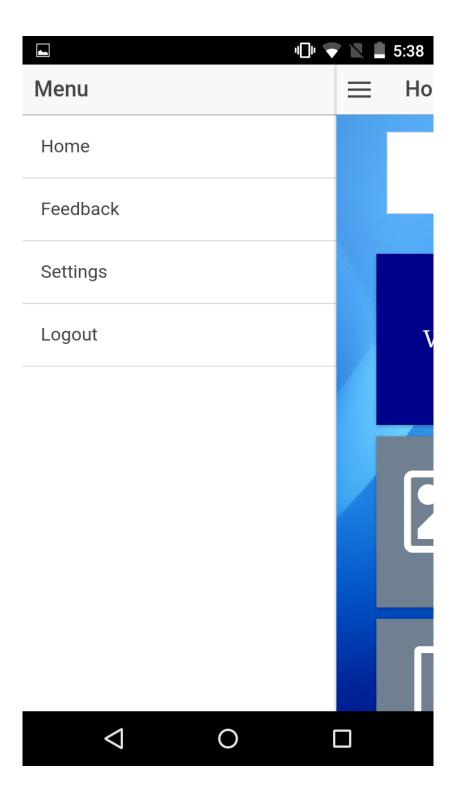
Login Screen in Android



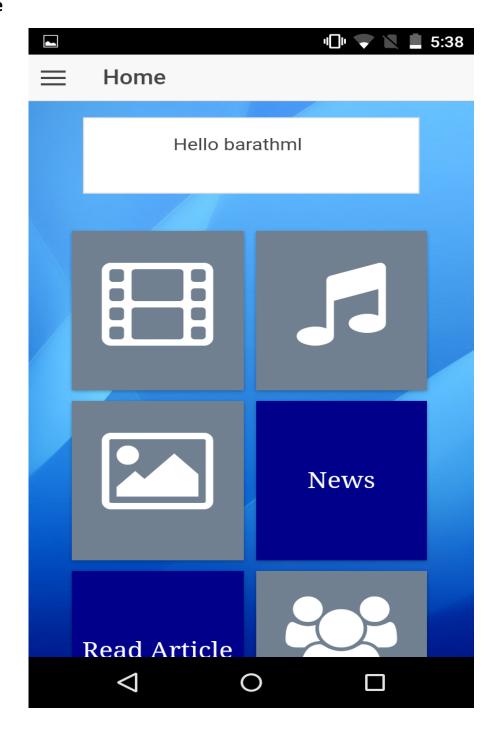
HomePage in Android



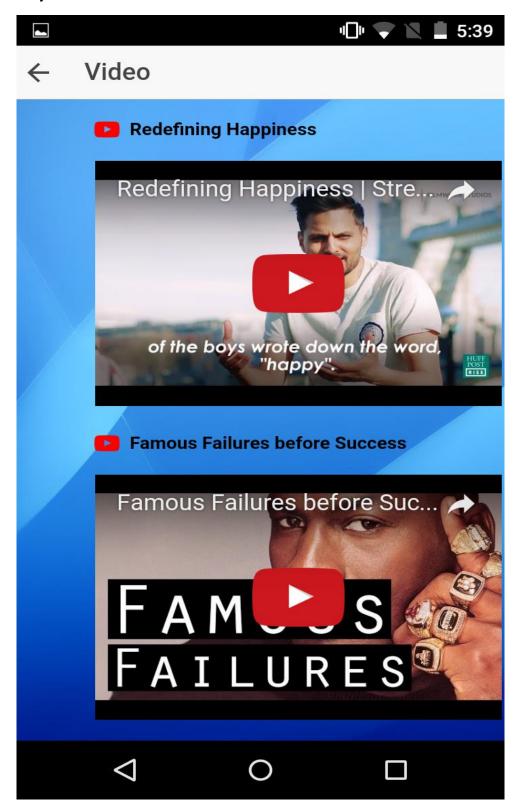
Side Menu



Home Page



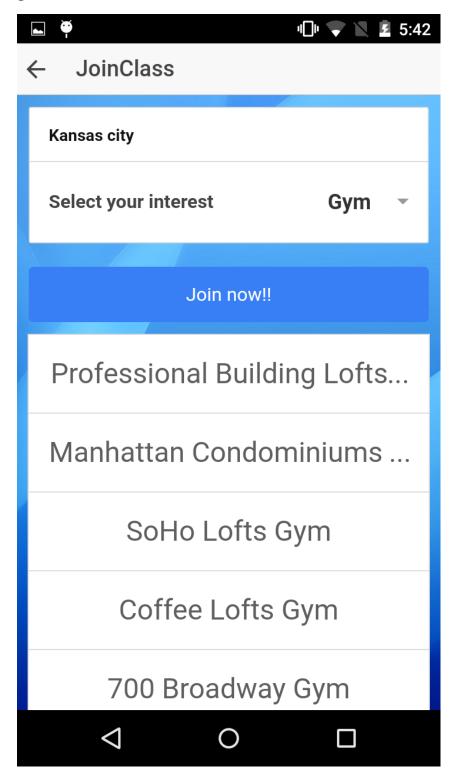
Youtube Player



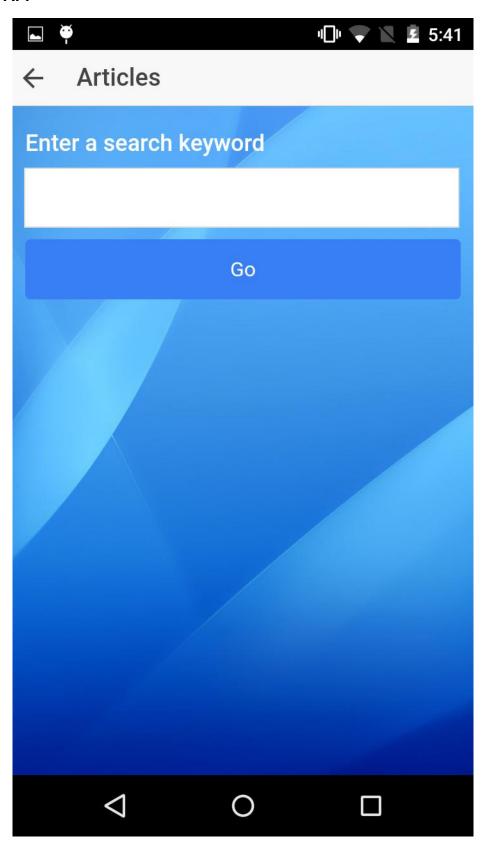
Gallery

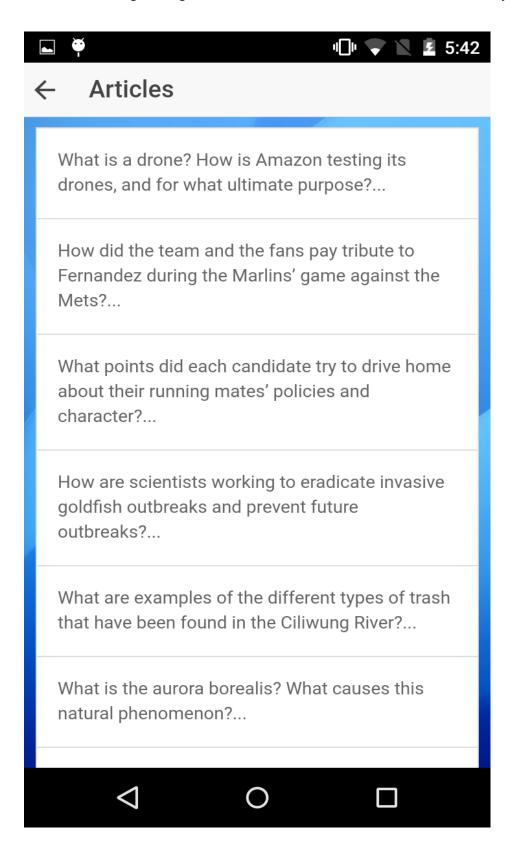


Join Class Page



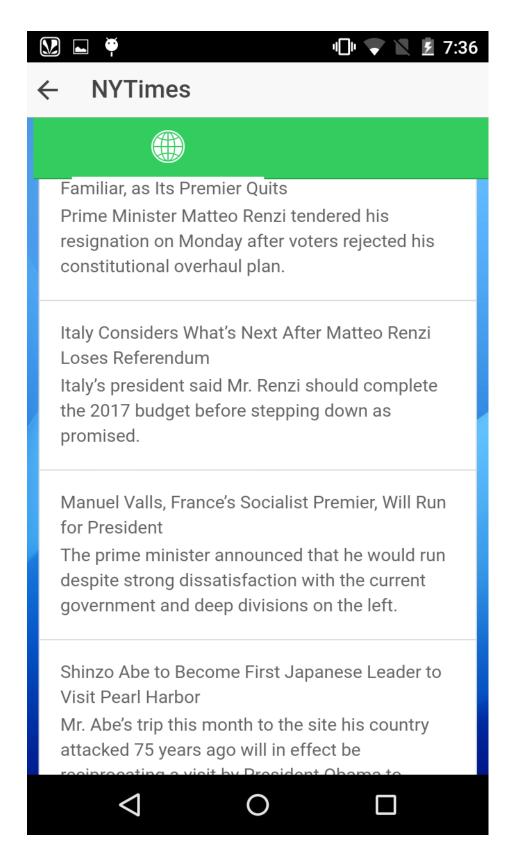
Articles API



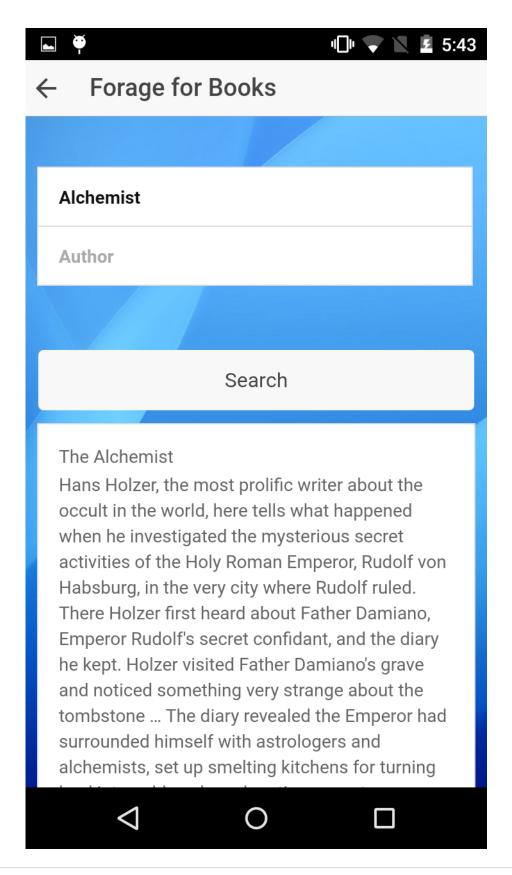


NYTimes Technology

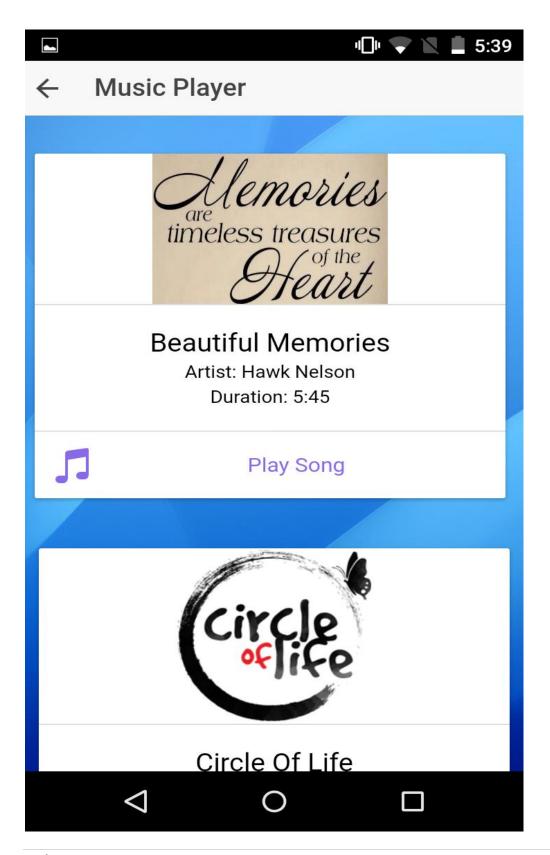




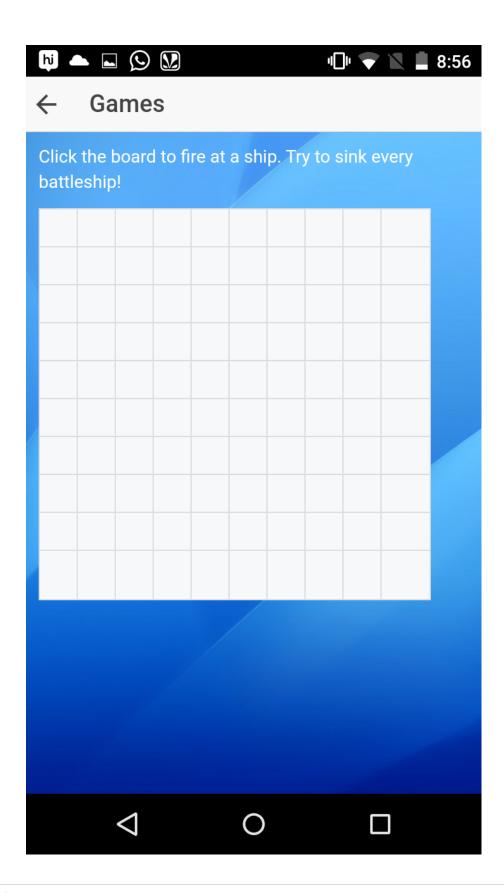
Books



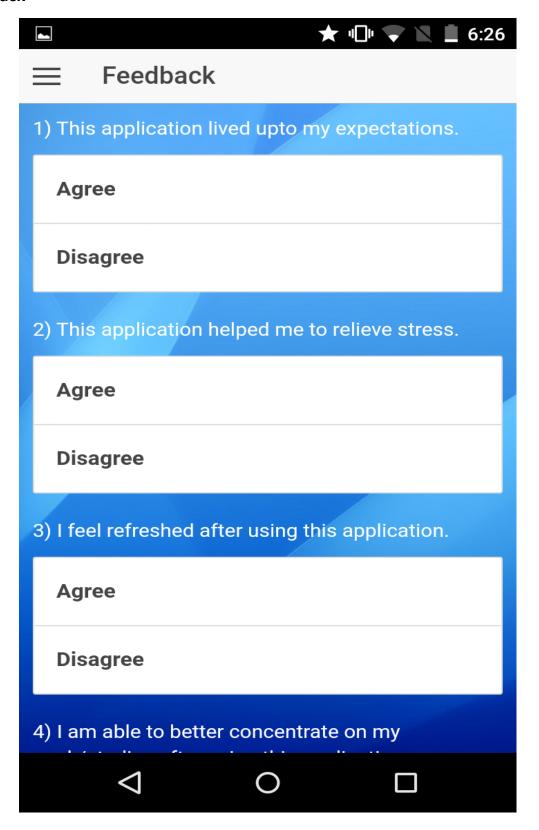
Music Player



Game



Feedback



VI. <u>Testing</u>

Unit Testing

Sr. No.	Test Case	Description	Expected	Result
			Outcome	
1.	Successful	The user	Successful	Pass
	User	should login	Login	
	Authentication	with		
		username and		
		password.		
2.	Unsuccessful	The user logs	Login	Pass
	User	in with wrong	unsuccessful	
	Authentication	username or	with error-	
		password.	Invalid	
			username or	
			password	
3.	Successful	The user	Successful	Pass
	user Oauth	enters correct	login and	
	Login	credentials in	transition to	
		Google or	Home page	
		Facebook.		
4.	Invalid Email	Admin	Successful	Pass
	ID	accepts	registration	
		registration	and transition	
		details from	to Login page	
		the user.		
5.	Registration	Invalid Email	Error- Enter	Pass
	by new user	ld alert.	valid email	
			address	

VII. <u>Technology Used</u>

Implementation of Mobile Apps- Technology Used

- Android SDK
- HTML
- CSS
- Ionic
- Javascript
- Firebase Oauth

VIII. <u>Project Management</u>

Work completed

Design and implementation of Launch page::

Launch page consists of basic information about the application with two buttons- Login and Register.

Design and implementation of Login page::

Login page will login into the application and also has Oauth 2.0 social login with Facebook and Google.

Design and implementation of Youtube Player::

Users can view various funny videos, motivational videos to overcome their stress.

Design and implementation of Gallery page::

Gallery will include an automatic slideshow of images representing various quick fix for stress reliving.

Design and implementation of Join Classes page::

Users can join various classes like music, dance, yoga, exercise based on the user's location and vicinity to that class.

Design and implementation of Music Player::

Users can listen to many stress relieving soothing music.

Design and implementation of Books::

Users can read books to have a break from their work and get refreshed.

Design and implementation of News & Articles page::

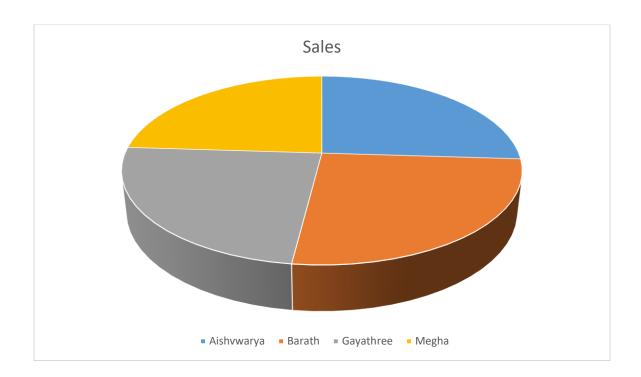
Users can read news and articles to overcome stress.

Design and implementation of Game::

Users can play game to free themselves from stress.

Contribution

- ➤ Barath Naravula Loganathan -- 26%
- ➤ Aishvwarya Natarajan Iyer 26%
- ➤ Gayathree Natarajan Iyer 24%
- ➤ Megha Nagabhushan 24%



IX. Bibliography

https://www.ted.com/talks/andy puddicombe all it takes is 10 mindful minutes

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https://www.verywell.com/tips-to-reduce-stress-3145195

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