

ONLINE NEWS APPLICATION

Group 3



Member

Name	ID	Work
Le Viet Anh	BI9-035	Main Coder
Do Thanh Dat	BI9-065	PPT designer, Presentator, Co-report Writer
Nguyen Tu Tung	BI10-187	Report Writer
Tran Bao Huy	BI10-079	Code Debugger / Reviewer
Vu Tuan Phuong Nam	BI9-022	

An illustration on the left side of the slide shows a person in a yellow shirt and blue pants leaning against a large, stylized digital screen. The screen displays a landscape with mountains and a sun, and a magnifying glass icon is positioned over it. The word "Abstract" is written in large white letters across the middle of the screen. The background is dark blue with some abstract shapes and a ladder on the left.

Abstract

- As the world's technology is swiftly expanding, we are so lucky to have high-speed connections and networks to directly communicate to another person.
- Due to day-to-day use in mobile, tablet and laptop is increasing, most of the people have already got these facilities. Moreover, in this quick and information-oriented world, we also need to stay updated with every incident and news.
- Our team is inspired to develop a simple news - reading application to deliver it to users in a best convenient way.

Introduction

This application will automatically update new contents from the <https://newsapi.org/> in real time. More, it must have an acceptable and easy to use interface for users. Since we were testing on the Nexus 5 running on Android 7 Nougat, our project might not applicable for older Android devices.



General Methodologies:



Retrofit

Powerful framework for authenticating and interacting with APIs and sending network requests with OkHttp.



News API

A simple, easy-to-use REST API that returns JSON search results for current and historic news articles published by over 80,000 worldwide sources.



Java

Popular programming language that can be used in a variety of platforms

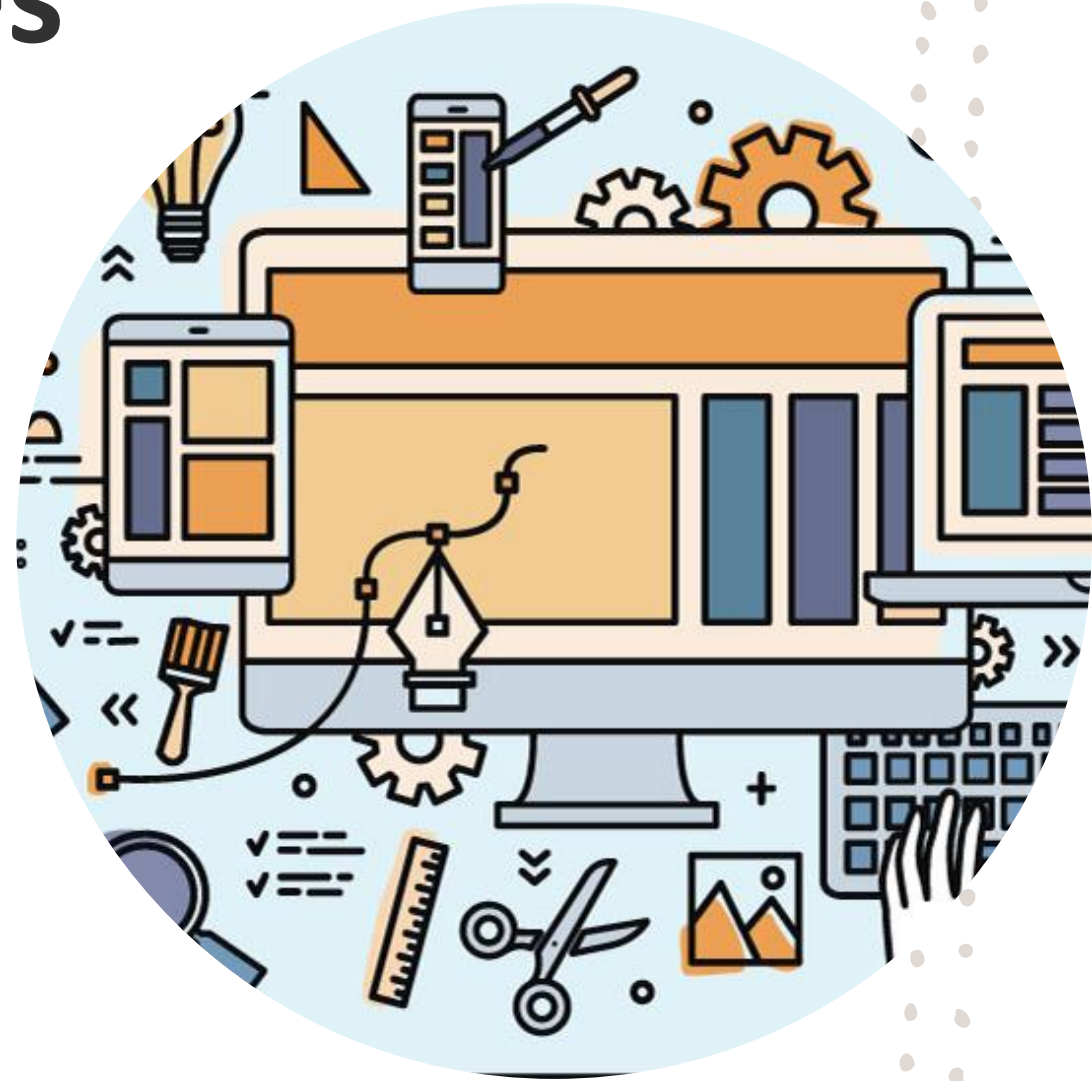


Firebase

A cloud-hosted NoSQL database that lets you store and sync data between your users in real-time

Overall Functionalities

1. **Authentication:** Register, using username and password of an existing account via Google account.
2. **Search function:** Look for an article with keywords.
3. **Fetch articles from News API using retrofit.**
4. **Swipe to refresh.**
5. **Detailed page corresponding to each news headline.**
6. **Splash screen:** display page while waiting for the app to boot.



Project Overview

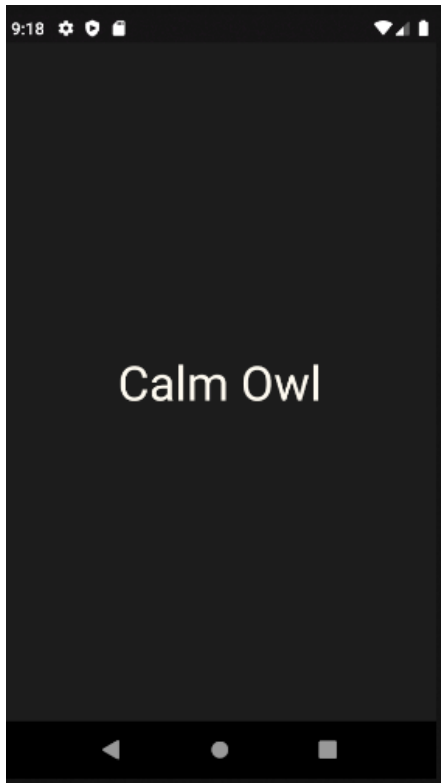


Fig1. Splash Screen

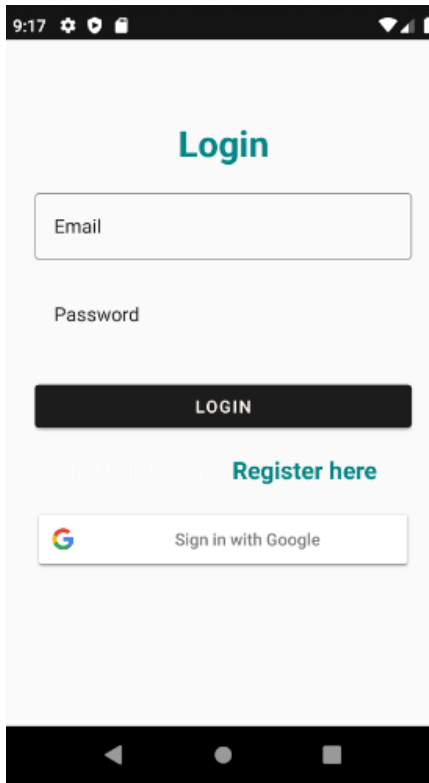


Fig2. Log-in screen

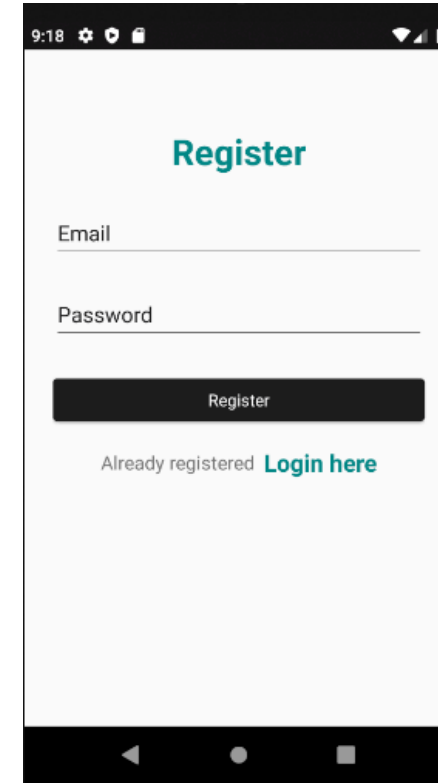


Fig3. Register screen

Project Overview



Fig4. Main Page

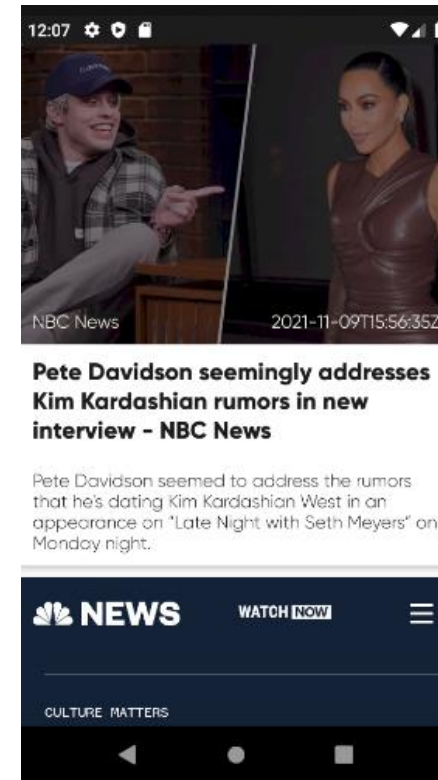


Fig5. Detail Page

Future Improvements

1. Bottom navigation with different categories
2. User profile page
3. Machine learning user experiences
4. Etc.



Thank you
for
listening!

