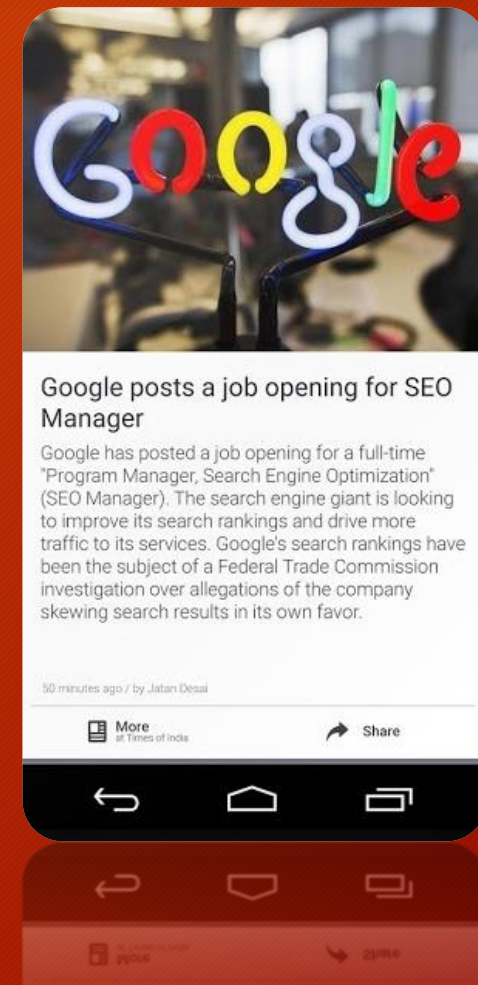# ChooseYourNews

Valyrian Steelers

Abstract

- Android app displays news headlines with picture and short description one at a time and lets the user like or dislike using a swipe
- The feed gets customised as per the user's choice based on our own ranking algorithm
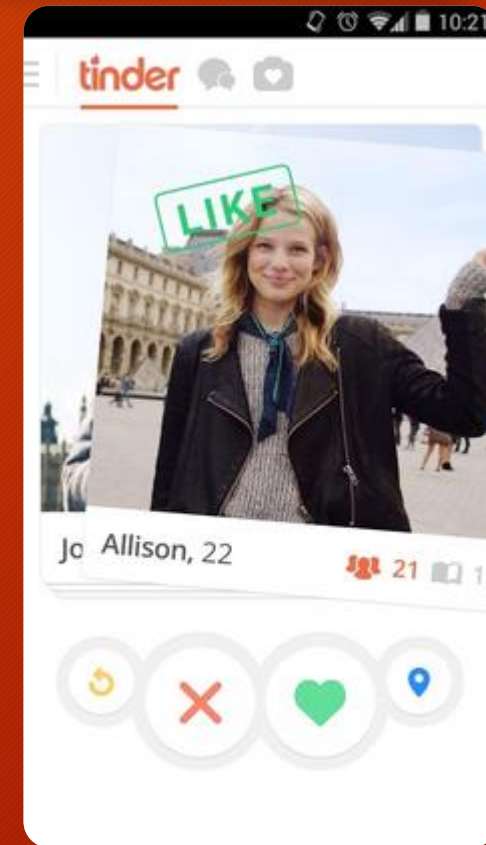
Abstract

- Users can view full article in the app itself or bookmark an article
- Features share button for sending links through Messenger, WhatsApp, etc
- Expected time in reading the whole article aids users in deciding to read or move on

Introduction

- Inspired by the UI/UX of Tinder, our aim was to simplify news-reading experience on phone, letting the app learn what the user likes and dislikes to improve the news feed, with just a swipe

Literature Survey

- News ranking algorithm is based on a simplified version of the one that Facebook used to customize our news feed

- Each news piece is assigned a score depending upon recency, source and content type as preferred by the user

How Does Facebook Choose What To Show In News Feed?

$$\text{News Feed Visibility} = {}^*\mathbf{C} \times \mathbf{P} \times \mathbf{T} \times \mathbf{R}$$

Creator · Post · Type · Recency

Creator
Interest of the user in the creator

Post
This post's performance amongst other users

Type
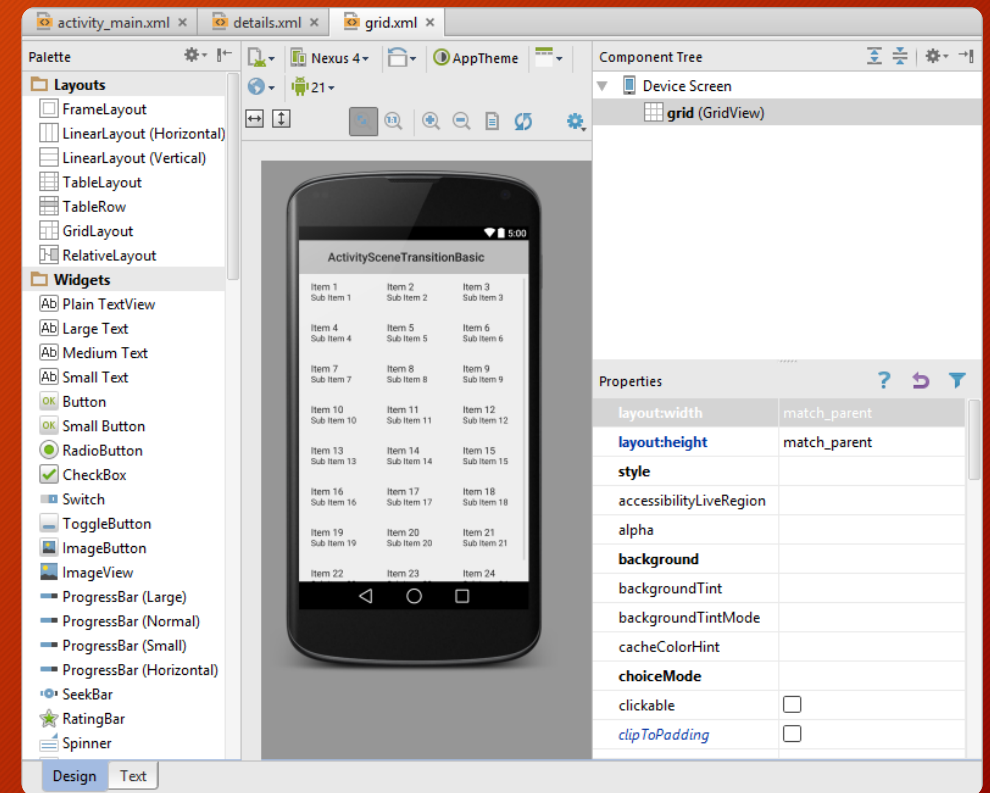Type of post (status, photo, link) user prefers

Recency
How new is the post

* This is a simplified equation. Facebook also looks at roughly 100,000 other high-personalized factors when determining what's shown.
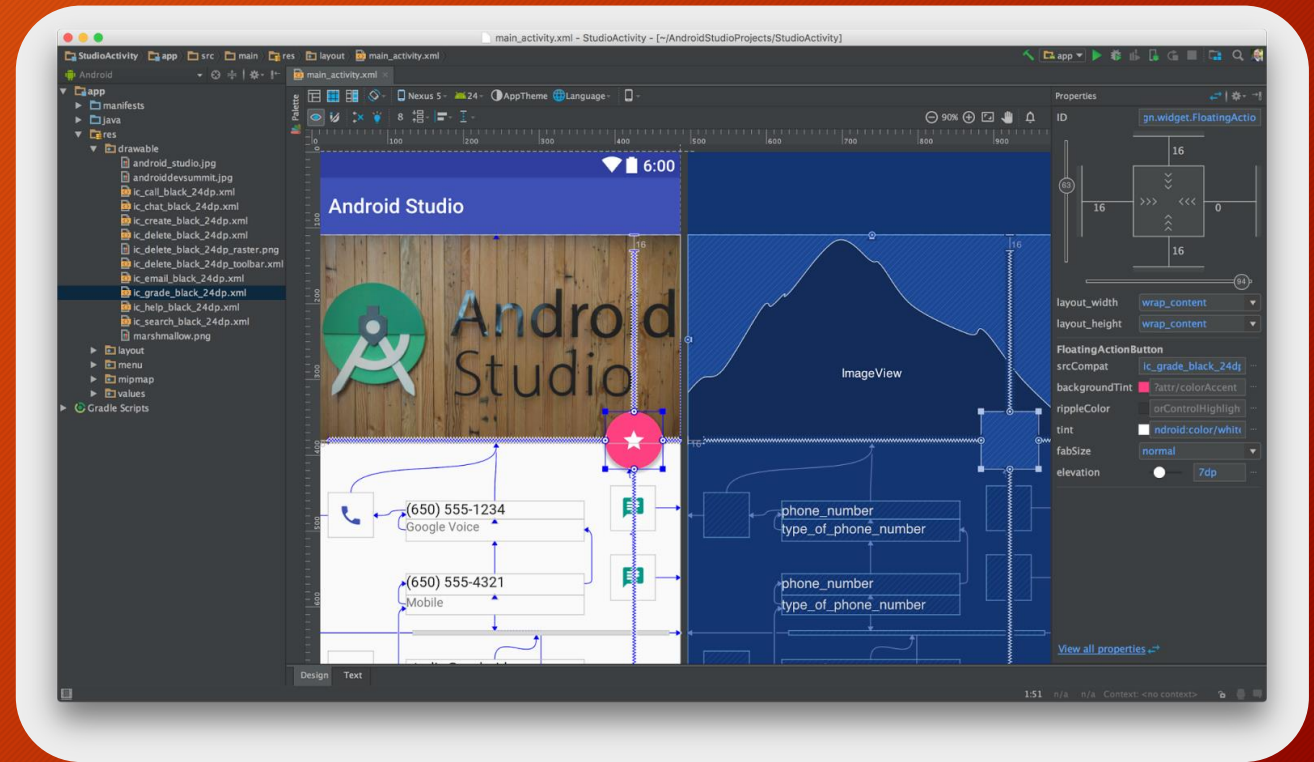
Problem Statement

- Develop an Android app to display news one card at a time
- Incorporate features like bookmarks, read offline, sharing through other apps
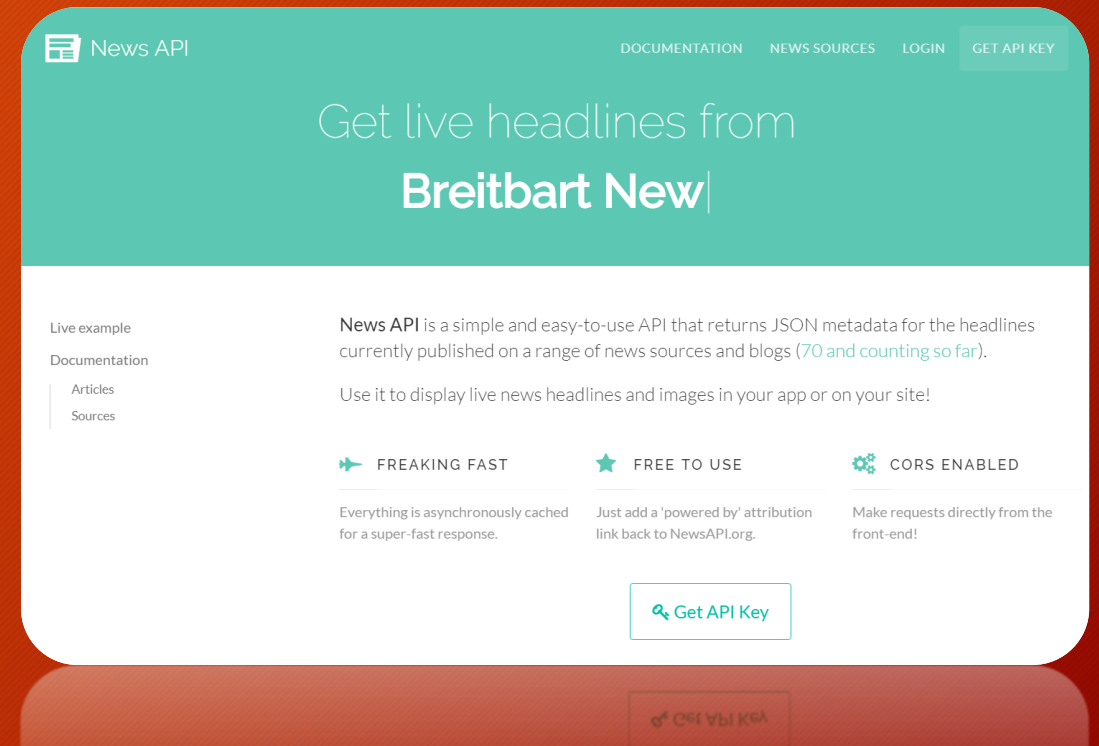- Develop algorithm to deicide the order of new articles based on data collected from user

Software Requirements

- Android Studio SDK 2.3.3 with inbuilt Android phone emulator
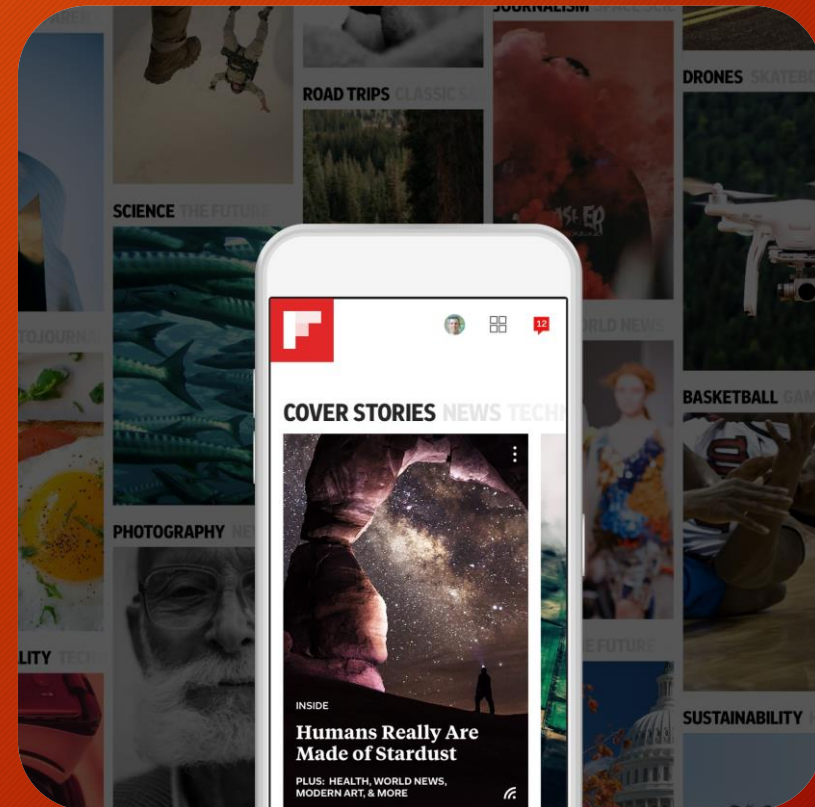- Git for version control

Implementation

- JSON data from newsapi.org is formatted to be displayed one card at a time containing a headline, a photo and a short description in recycler view

- News pieces are ranked based on time, source and keywords liked by user, which help customize the feed

Feasibility

- App is useful for those who wish to filter out irrelevant news pieces and articles
- Users can decide whether or not to read the entire article based on estimate of time needed

Testing

- The inbuilt Android Studio phone emulator helped us view the UI as we design it
- After completion of each major feature, we tested the app on an actual Android phone