



## Mobile Computing

# newsxtreme

---

Arpan Kumar  
Daksh Pandey  
Tony Thomas

# About **newsxtreme**

A News API Application that utilizes **location-sensing** to get news relevant to that region, relevant to you. It also offers the facility to **download** important articles in local storage to view offline.



# Activity 1

## Splash Activity

### **fun SplashScreen ()**

This function creates a splash screen which uses Jetpack Compose **animation** and **transition**



```
Box(){  
    Text (news)  
    Text(xtreme)  
}
```

This Composable function creates a box component which two text composables using multiple colours and displays it in UI.



# Activity 2

## Home Activity

### Categories List

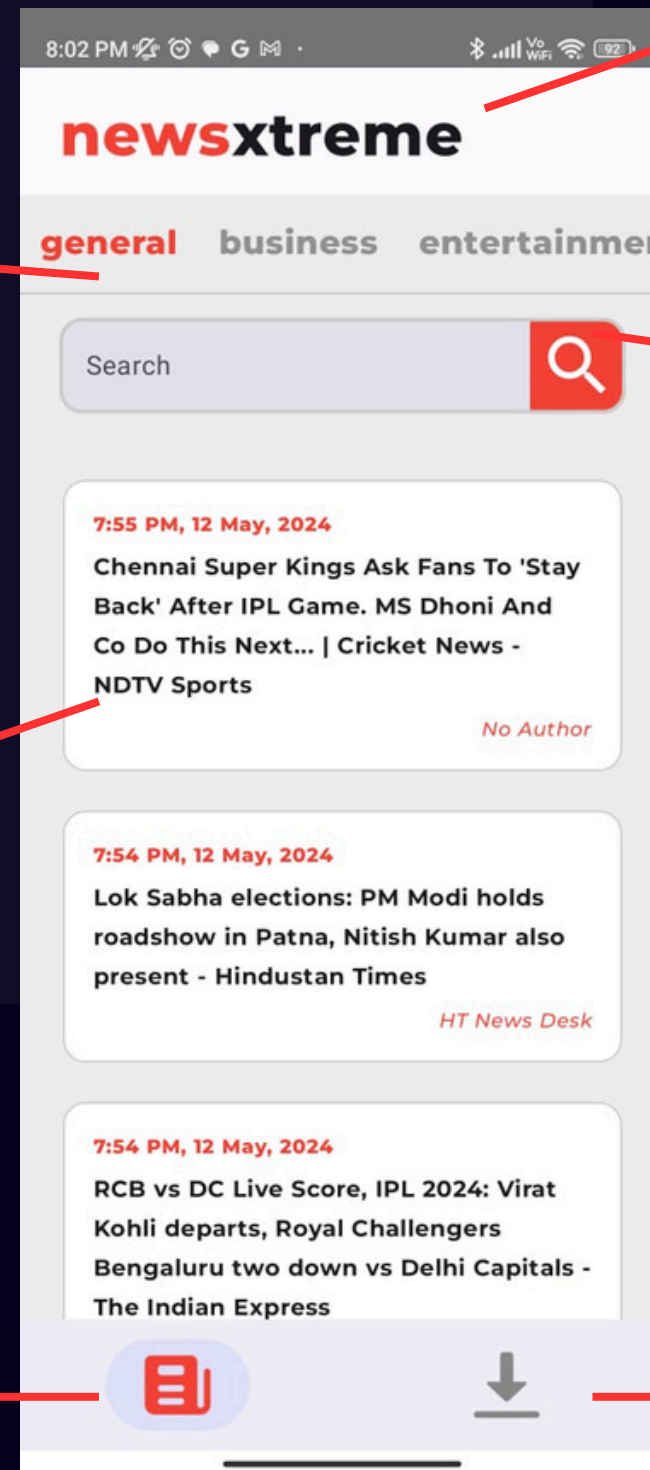
A lazy row of categories, from which the user can select a category. Relevant news in that category is fetched. By default, **general** category is chosen

### News Card

This Composable inputs the **Article** data class object and displays the relevant attributes in a card like format

### Top News Icon

The user navigates to **HomeActivity** by selecting this icon.



```
Box(){
```

```
Text(news)
```

```
Text(xtreme)
```

```
}
```

This Composable function creates a box component which two text composables using multiple colours and displays it in UI.

### Search Bar

It helps the user search **specific keywords** across the the web and get relevant news according to those specific keywords

### MainScreen

This Composable represents the whole screen. Necessary **location data** and **ViewModel** data are fetched here.

### Downloads Icon

The user navigates to **DownloadedNewsActivity** by selecting this icon. Necessary data such as news articles are passed through an intent.

# Activity 3

## ContentScreen Activity

### Back button

On touching this icon, the activity is finished. Go back to the **HomeActivity** using this.

### URL Image

**DisplayImageFromUrl** composable performs asynchronous fetch on the image url. On loading, a **circularLoadingIndicator** is used.

### Text

The text is web scraped from the article URL using **Jsoup**

**Box(){**

**Text (news)**

**Text(xtreme)**

**}**

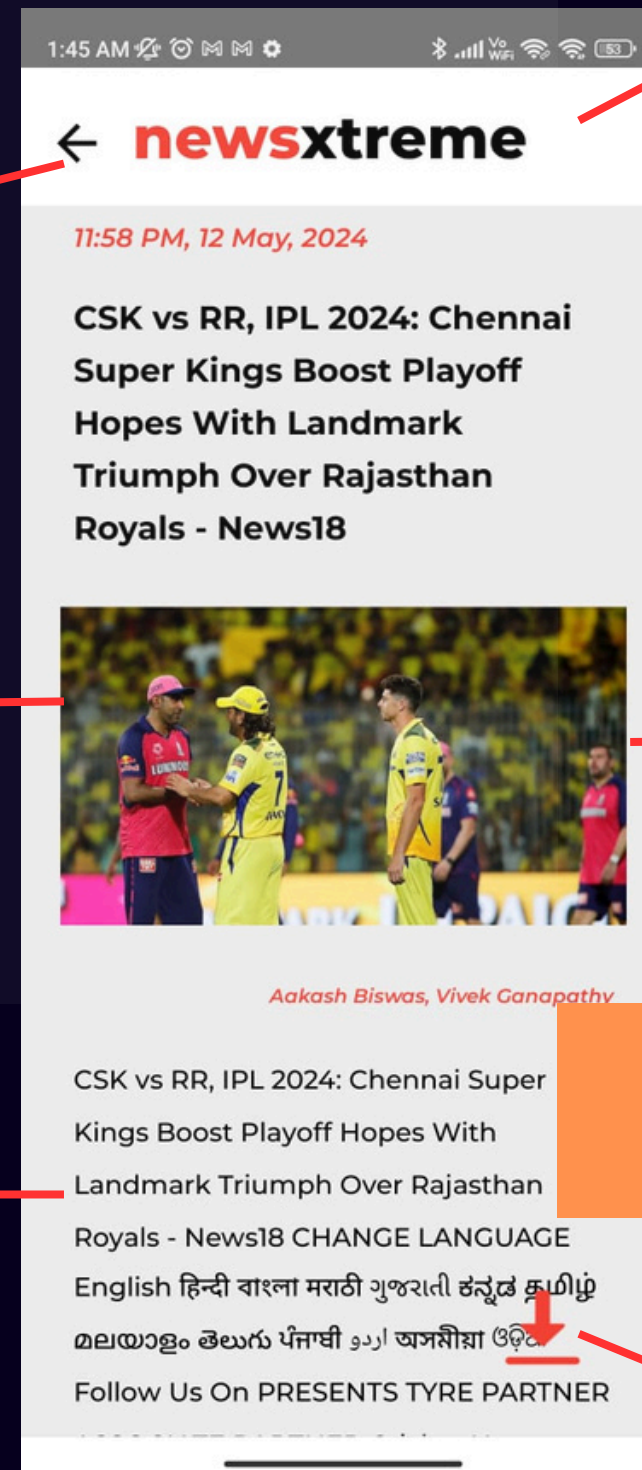
This Composable function creates a box component which two text composables using multiple colours and displays it in UI.

### fun NewsContent()

The article title, author, published date, images, and content are displayed in this single **composable**.

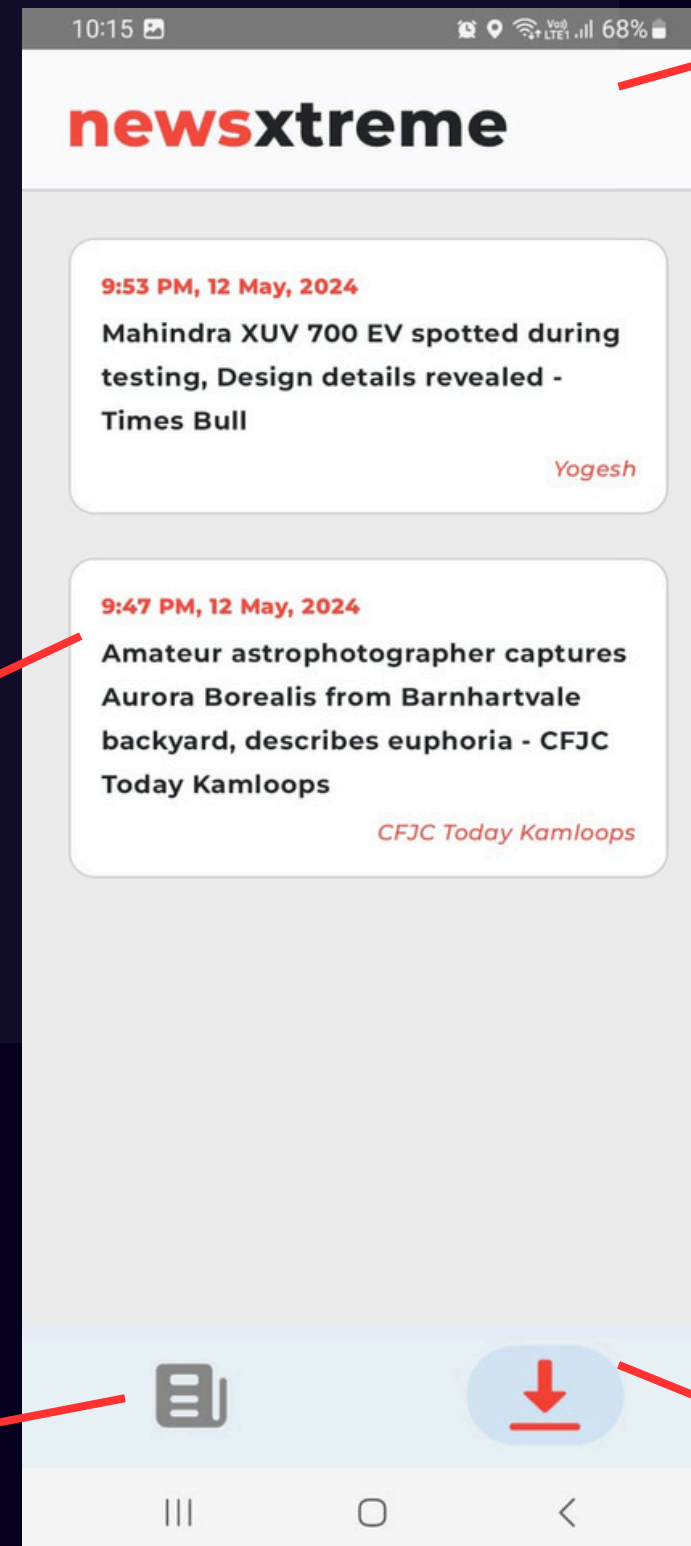
### Downloads Icon

The news is downloaded to local database and the user navigates to the **DownloadScreenActivity**



# Activity 4

## DownloadScreen Activity



```
Box(){  
    Text(news)  
    Text(xtreme)  
}
```

This Composable function creates a box component which two text composables using multiple colours and displays it in UI.

### News Card

This Composable inputs the **Article** data class object and displays the relevant attributes .

### fun DownloadScreen()

The article title, author, published date, images, and content are displayed in this composable.

### Top News Icon

The user navigates to **HomeActivity** by selecting this icon.

### Downloads Icon

The user navigates to **DownloadedNewsActivity** by selecting this icon. Necessary data such as news articles are passed through an intent.

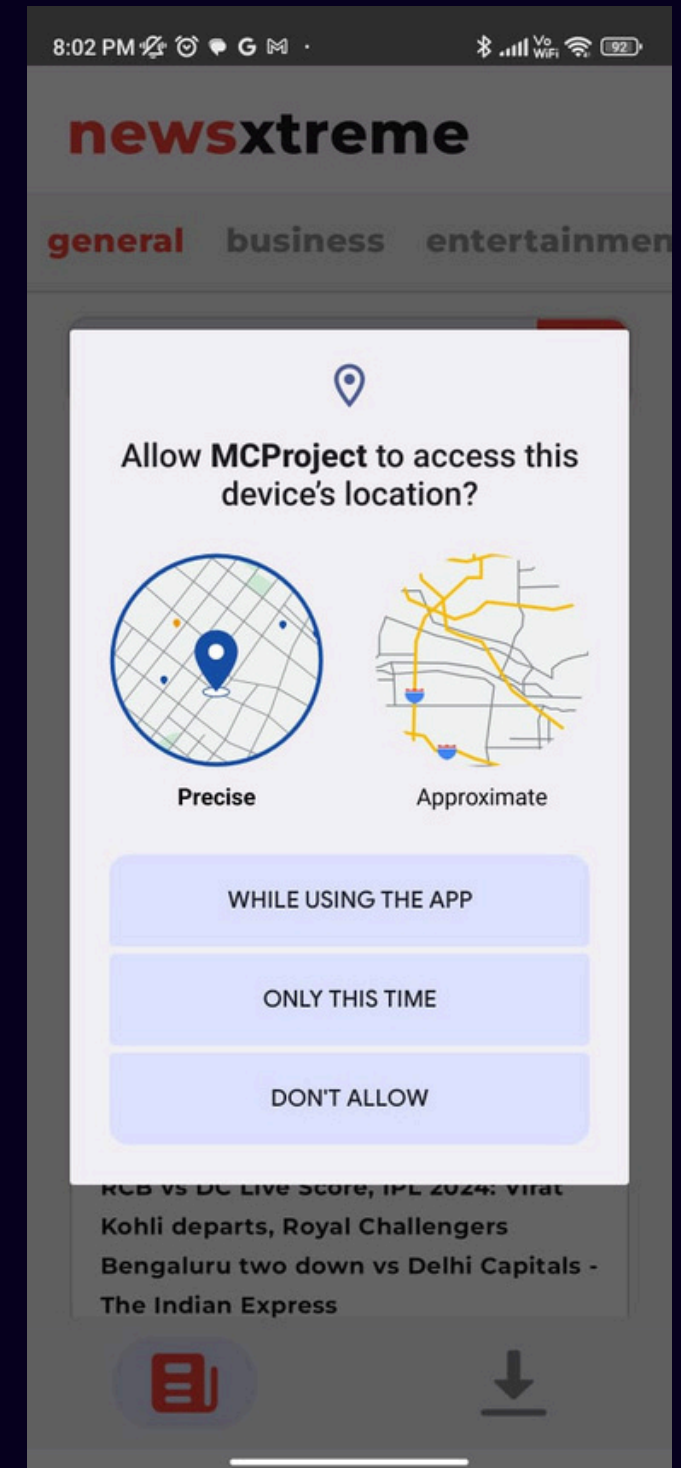
# Activity 5

## Main Activity

This activity helps in launching Splash Activity which helps further launching the HomeActivity and other activities of the mobile application

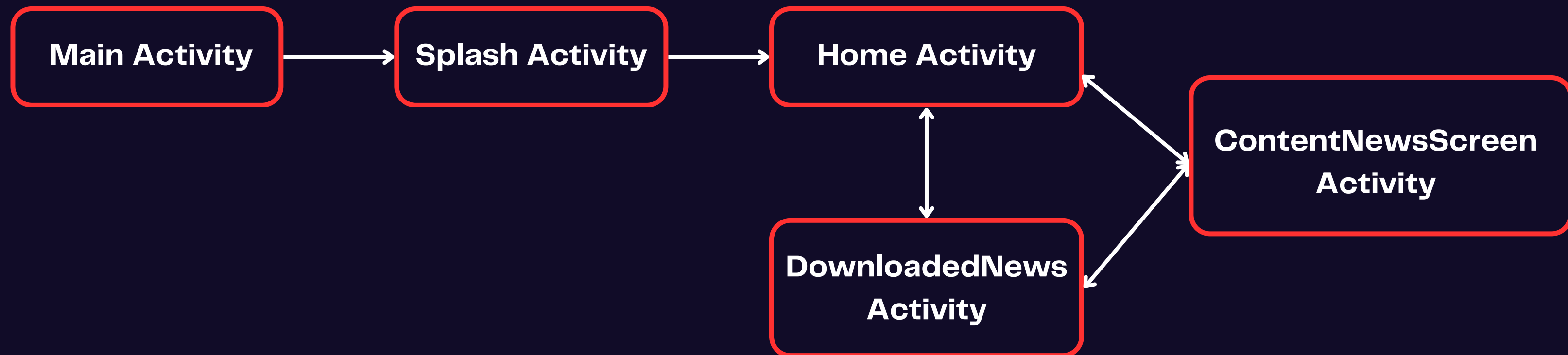
# Features Used

- **Location sensor** – Newsxtreme fetches the most relevant news for a given category in the user's current location. The location is retrieved using the device location sensor
- **Database** – The downloaded news articles are stored in a room database. The app ViewModel exposes methods to insert into the database and delete from the database.
- **API call** – When online, Newsxtreme refreshes with the latest news fetched from newsapi.org
- **Downloads** – News content is downloaded and stored in local database
- **Web scraping** – The app uses web scraping in ContentScreenActivity using Jsoup to retrieve content from a webpage
- **Custom fonts and self designed custom images**

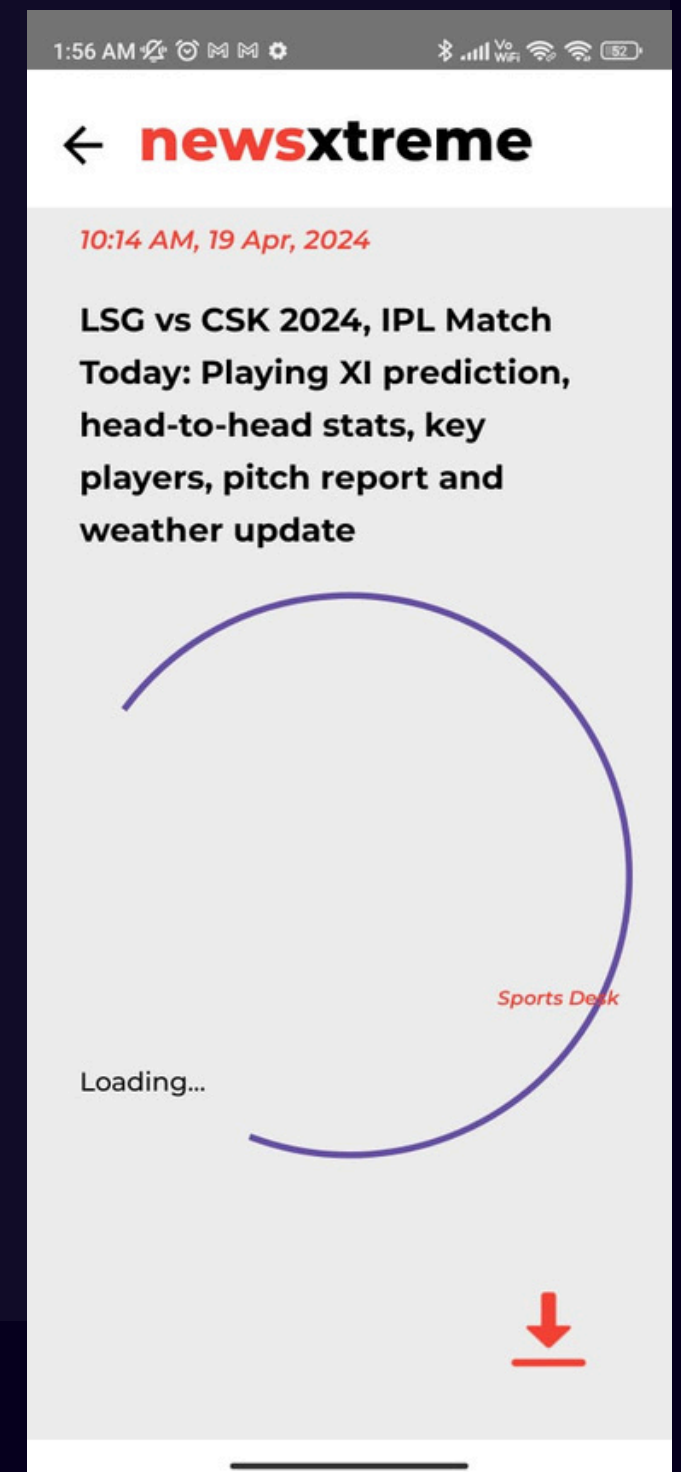
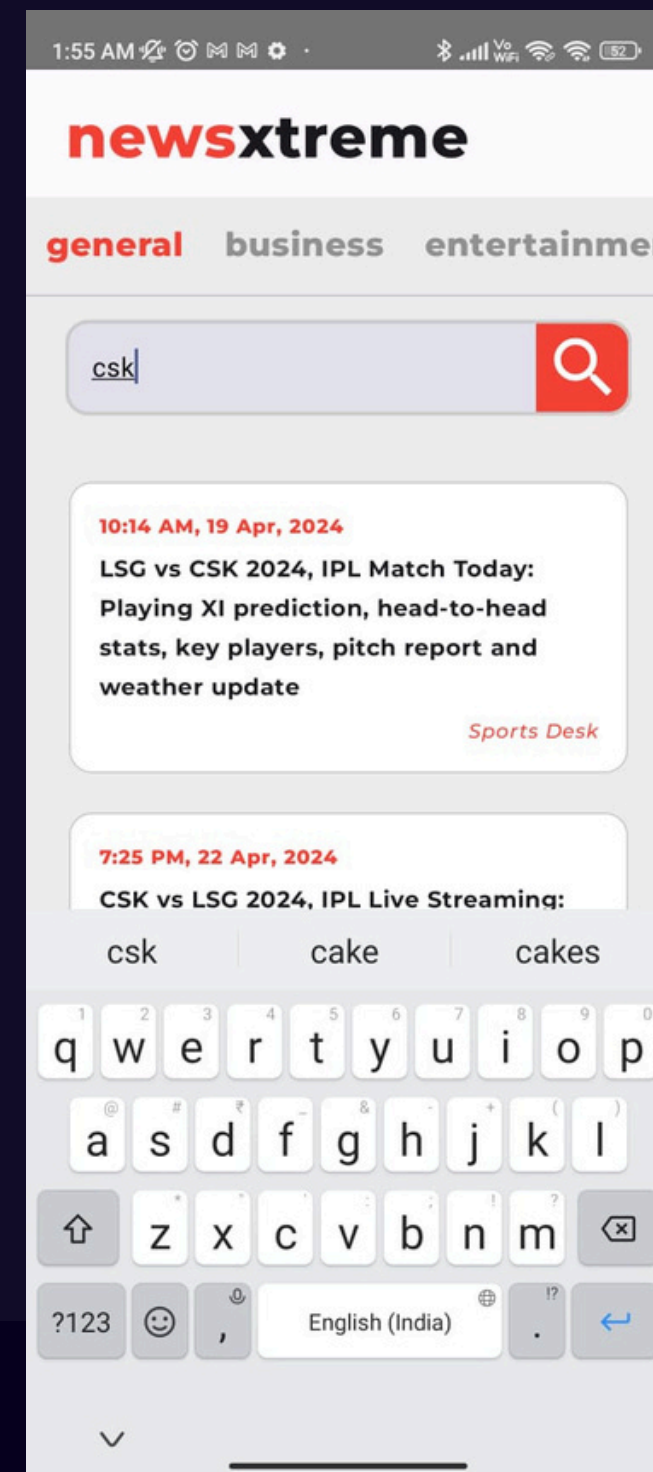
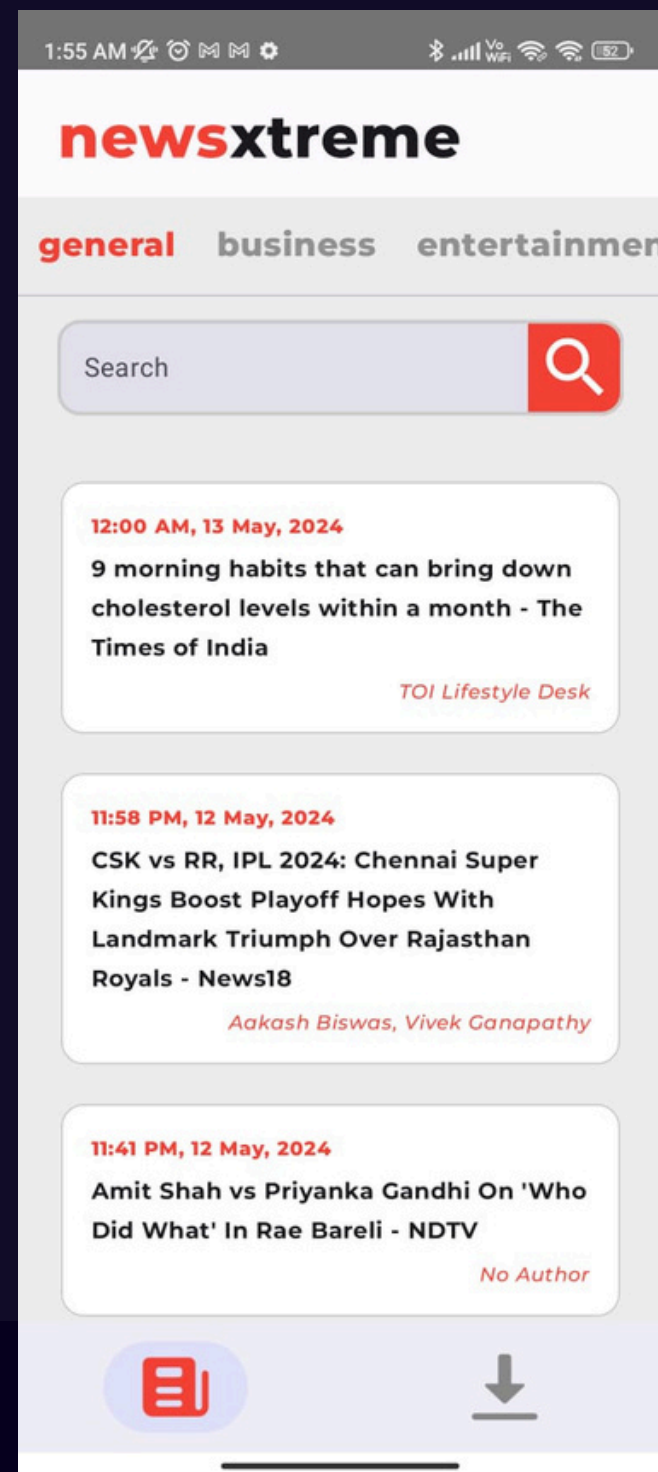




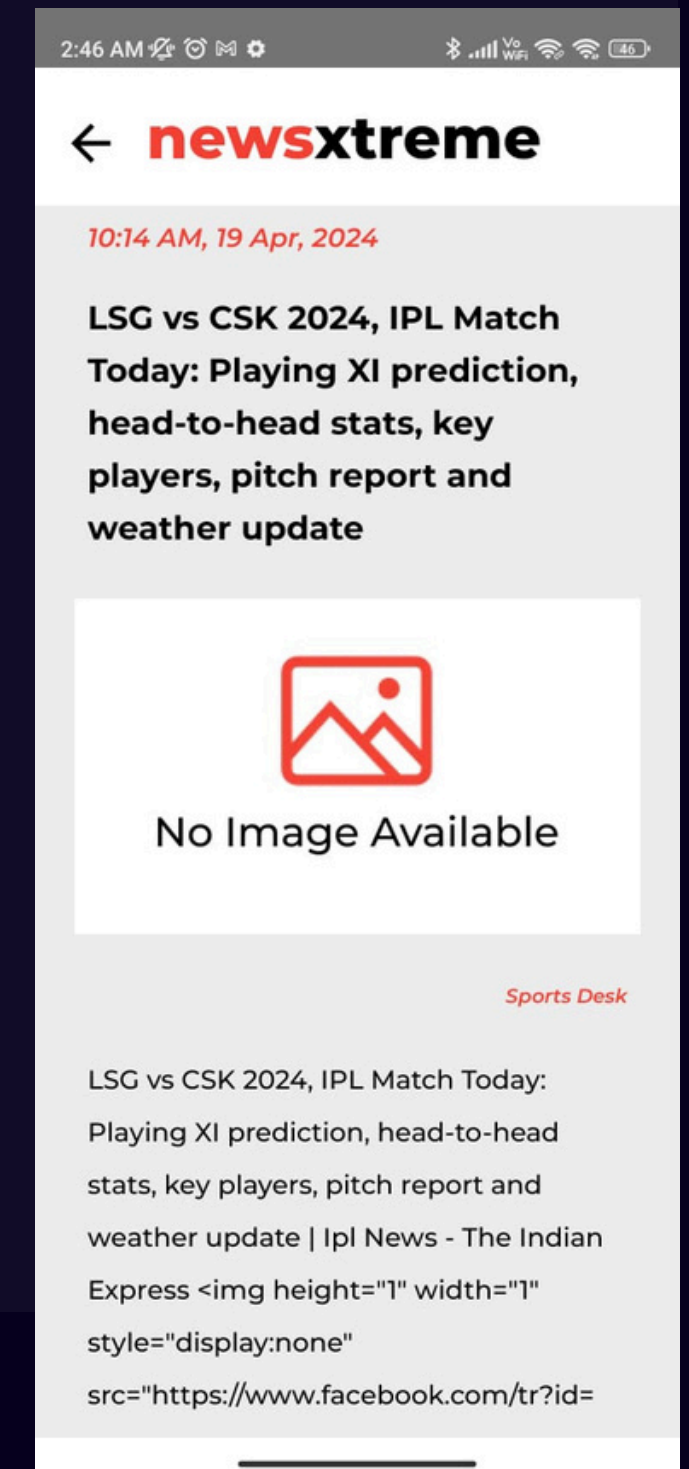
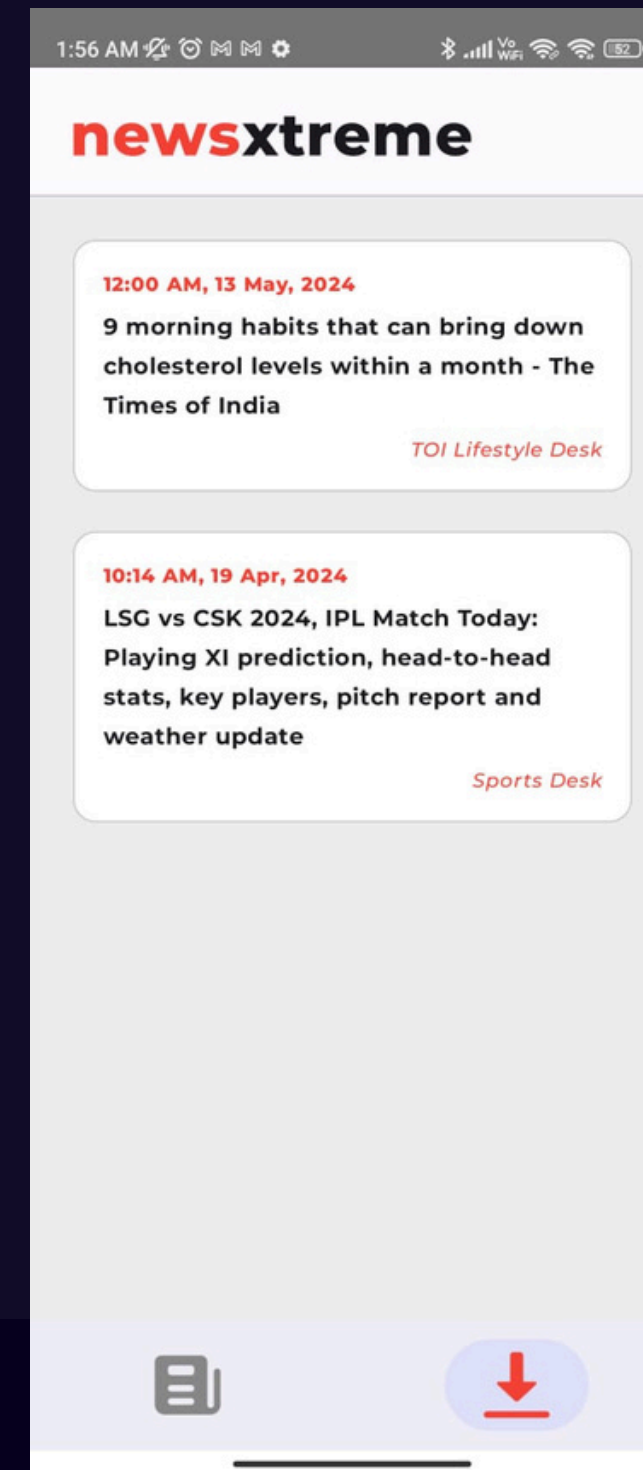
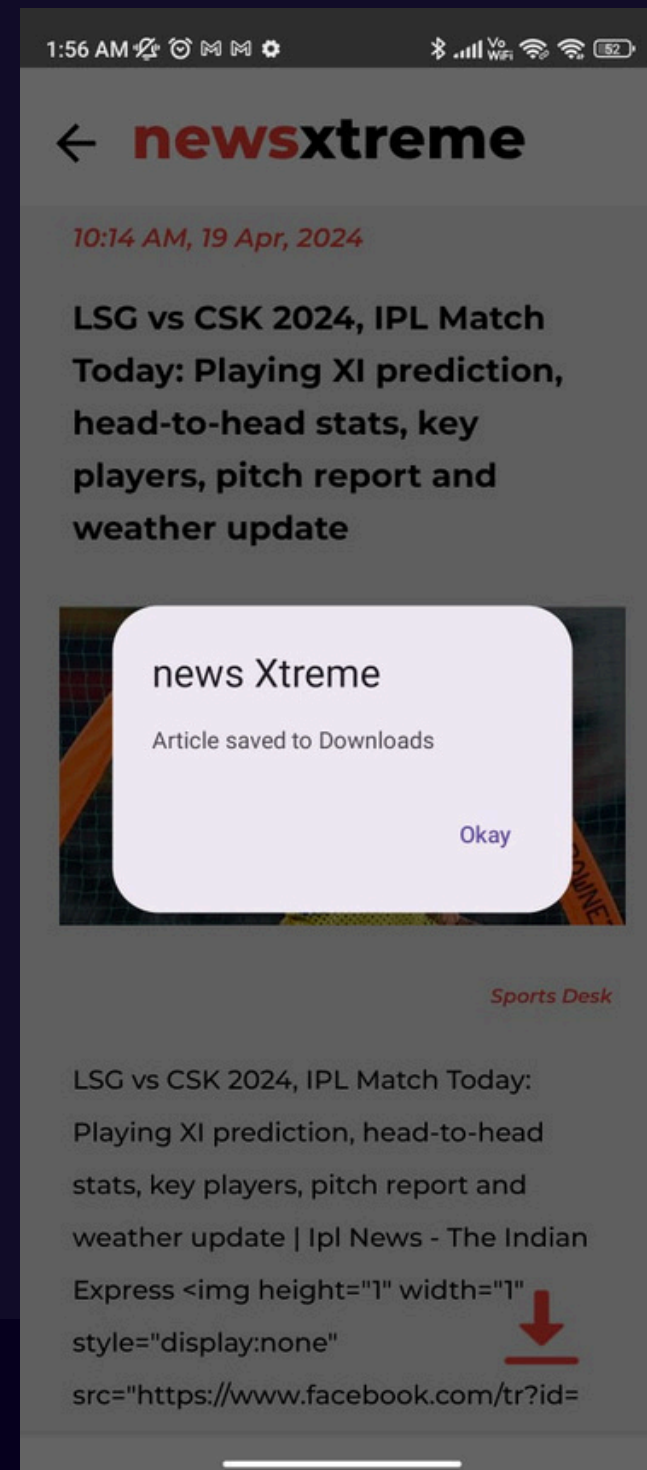
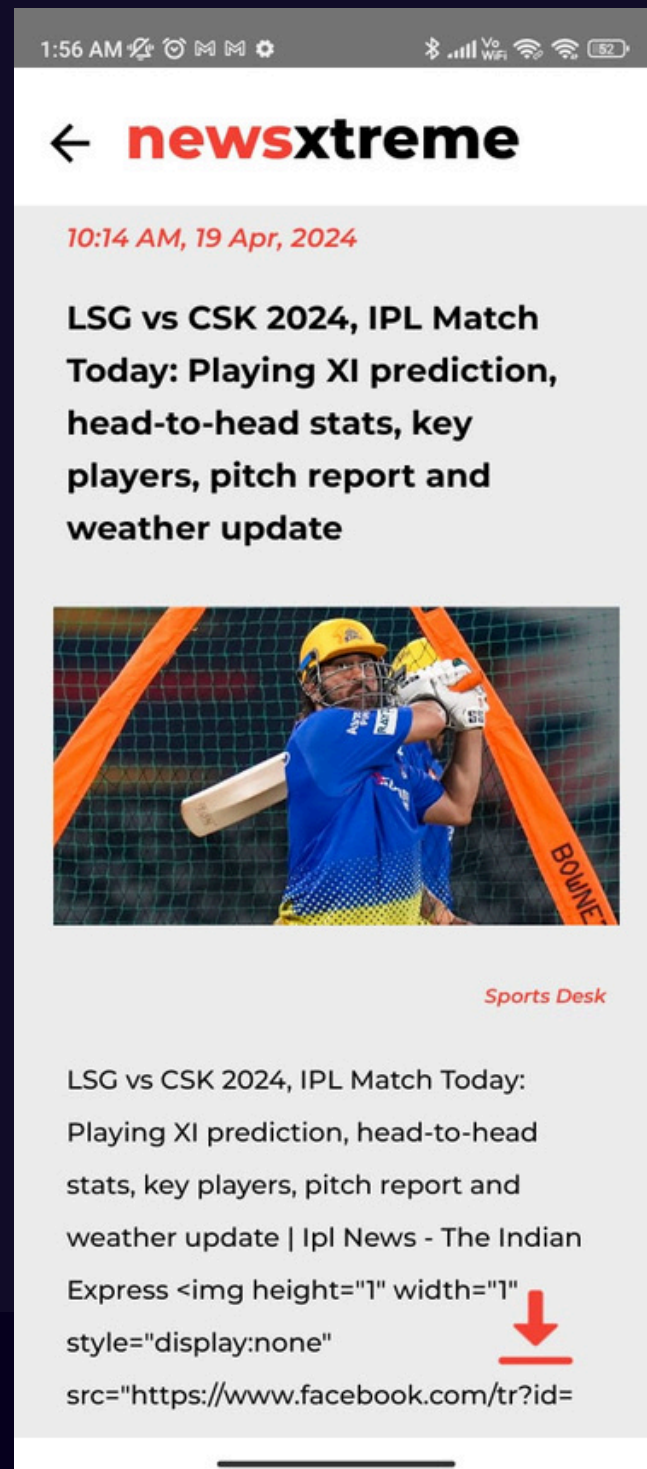
# Workflow



# Screenshots



# Screenshots



# Demo Video

[Drive Link](#)



# Thank You Page

---

Thank you for reading our presentation



**Mobile  
Computing**

Arpan Kumar 2021020  
Daksh Pandey 2021036  
Tony Thomas 2021360

