



Tell us what your idea is.

Our idea is about creating an application that helps in reading the daily **Newspaper**. Even though we can get the news information via different sources like Social Media, Television and News apps etc, people often prefer to read the news from News Paper. So our idea is to create an app that uses the actual newspaper as its source of content. Here's how our idea works:

1. Our app **downloads** the specified **Newspaper** from online daily and users can also scan a particular paper if needed.
2. Then it uses the **Machine Learning** and detects the **Headlines** and **sub-texts** on each page of the NewsPaper.
3. Now users can ask queries to the app like:
 - read out the headlines one by one
 - read out the headlines in the Sports section of the News Paper.
 - read the sub-text under a specific headline.
4. Since the app already knows this information, it uses **Text-to-Speech** features and reads out the news to the users.

This way users can hear the news(topics which they were interested in) while continuing their morning routine like drinking coffee, doing yoga etc. We are planning to create this app as an interactive voice application so that users can also say the commands instead of only typing or clicking.

Because of its features, **Blind** people can also use this app for getting information from the **Newspaper**.

Tell us how you plan on bringing it to life.

Our project is actually in the initial state and about to start with the development. We have decided what our application gonna be and its features.

Following are the features that we want to build:

1. Ability to automatically **download** the particular News Paper online.
2. Ability to scan a newspaper.
3. Ability to detect the **Headlines** and **sub-texts** in each page of the Newspaper.
4. Ability to understand the **user's voice queries** like read out headlines and read out sub-text under a headline etc.
5. Ability to respond to user queries by converting the text from Newspaper to **Speech**.
6. Users can register their interested topics so that while responding to the user we can prioritize the topics.



Following are places where we think we could use Google features:

1. Using **On-Device ML** technology for detecting the **Headlines and sub-texts** in each page of News Paper.
2. Using Google Voice libraries for understanding user voice queries.
3. Google **Text-to-Speech** libraries for converting the text into the audio.

Following is the timeline plan, we want to follow for building this app:

1. Doing the research(POC) for understanding how we can detect the Headlines and sub-texts from News Paper using ML features – in December 2019 & January 2020.
2. Creating the Android application – in February 2020.
3. Performing the real-world testing in the first half of the month – March 2020.
4. Taking the feedback from testing and completing the full development by the first half of the month – April 2020.

App High Level steps with images included(attached - **App High-Level Steps.pdf**)

Tell us about you.

I'm a software developer with 3.5 years of experience. Currently working in a startup, and here I work on Android and Backend(Python) technologies. I like to solve real-world problems with technology. I feel I'm a quick learner.

Following is the technology stack I'm comfortable with:
Java, Python, Android, Firebase.

Projects:

EazyPG:

Following are the apps, I've developed personally for people who stay in PG's(Paid Guests):

<https://play.google.com/store/apps/details?id=com.notfound.eazypg> – For the Tenants.

https://play.google.com/store/apps/details?id=com.notfound.pg_owner – For the Owners.