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Ministry Name : **Ministry of Railways**

Problem Statement : Media Plan

Team Name : **ateamhasnoame**

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Description of Idea :

- A. We will get the data from the DAVP Publisher-on-Panel Portal and serve it to a website after filtering and sorting of data on the basis of price, reach, and region.
  - B. We will get news related to the railways either from the Bing News search API or develop a custom web scraper to monitor news from selected trusted news website for headlines/articles. We will check newly posted news items against the existing ones in the database for similarity. If found similar in content, we will ignore that particular news item. Otherwise, we will analyse the content for positive or negative sentiment and alert the app users while simultaneously updating the information on the web portal.
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# Technology Stack

- Python
  - TFIDF & Cosine Similarity
  - TensorFlow
  - Flutter, Dart (App Development)
  - Firebase (Backend for App)
  - Word2Vec & SVM (Sentiment Analysis)
  - HTML, CSS, Javascript (Web Development)
  - BeautifulSoup or Bing search API, Numpy, etc.
  - Other Open-Source Python Libraries (like numpy)
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## Use Case

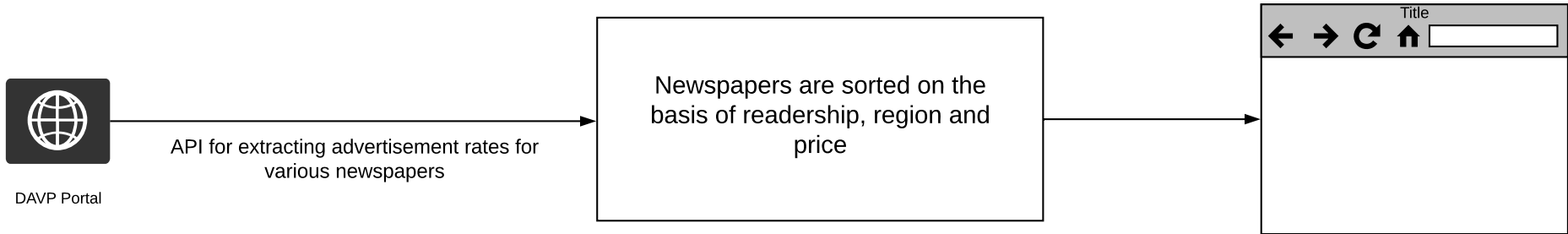
The System is meant to be used by Railway Employees.

## Show Stoppers

- Server Cost
  - Need Publisher-on-Panel Database API from DAVP (due to Captcha on their site) / Require Captcha Relaxation Otherwise
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## Newspaper Selection from DAVP Portal

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News Monitoring System for Railways

Our proposed system goes further than just monitoring the news, it classifies the news into multiple levels according to positivity/negativity for better understanding and ability to take action accordingly

