AIRVIEW

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Abstract

This is a real-time flight information application that gives the moving map system of the journey over the particular fly. This system illustrates the position and direction of the plane and gives some basic knowledge about the cities, the passenger passes by. It also gives the distance to the destination and distance from the origin and local time. More features such as a method of displaying the elevation of your device above the sea level or the earth's surface. The weight of the luggage can be measured using this application (luggage having load sensors). The application also tracks down the luggage bag from a particular range to avoid misplacing or getting lost and also it keeps a record of your previous journey. This application mainly works on the concepts of real view navigation through GPS and combines data from several data sources including ADS-B, MLAT and Radar Data and uses preloaded knowledge through Wikipedia.

Index terms: *load sensor result, tracking, GPS, ADS-B receiver and radar data.*

Introduction

This application elevates flight experience by delivering moving map service in the industry. It enchants the passengers with its attractive, entertaining experience and informative point of interest content. The application also includes add-ons for the luggage such as weighing and tracking the luggage so that the passengers prevent baggage fees and avoid misplacing of the luggage.

The application gives pop ups of the cities passing through your journey and gives information. This application encourages people to know about the city they are travelling to. This application also adapts flight habits. It also includes an innovative feature of chatting to the pilot. The application uses maps and data from various geological databases to identify and give information on the landscape passing beneath a plane.

Proposed work

The idea is to create the flight journey entertaining as never before with In-flight entertainment. Since it works solely with a phone's GPS, there's no need for a user to purchase In-flight Wi-fi. The user will see features tagged on a map corresponding to the ground below Sitting in your window seat, you can peer down on natural features like glaciers and man-made features, such as mines, monuments and read Wikipedia articles about them at the same time. To explain the features in depth, the app relies on cached Wikipedia articles. The user can chat and ask question to the pilot about their flight journey and can listen to the songs of the areas which passes and read various news feed.

Working of the setup

- The application will contain a login and a password for every individual user.

- Next, the user will be redirected to the domain page in which he will select the chart or area in which he is flying.
- Then the user will be asked to mention the origin and the destination stations of the user.
- After the user updates the travel details he will be redirected to the navigation map.
- Based on the interaction with PILOT, it is an implementation of Artificial Linguistic Internet Computer Entity (A.L.I.C.E).
- The user can ask question to the pilot regarding the journey and get pop ups about the cities passing by.
- The application will have a feature of weighting your luggage through load sensor which will give a notification output as "your luggage has exceeded 15Kgs"
- So that the user can prevent luggage fees.
- The application will give the distance of the luggage from your device which will ensure the passenger never loses it.

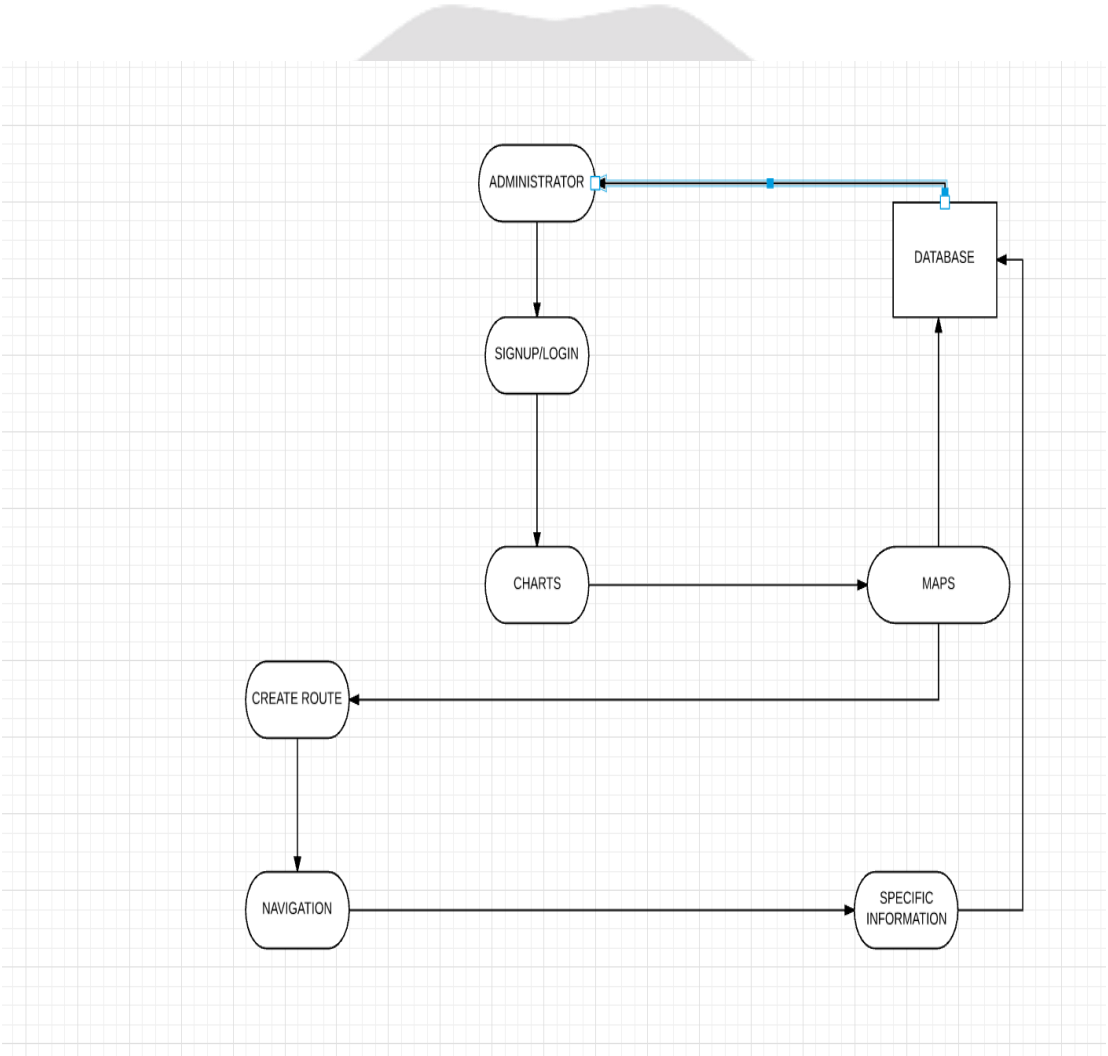
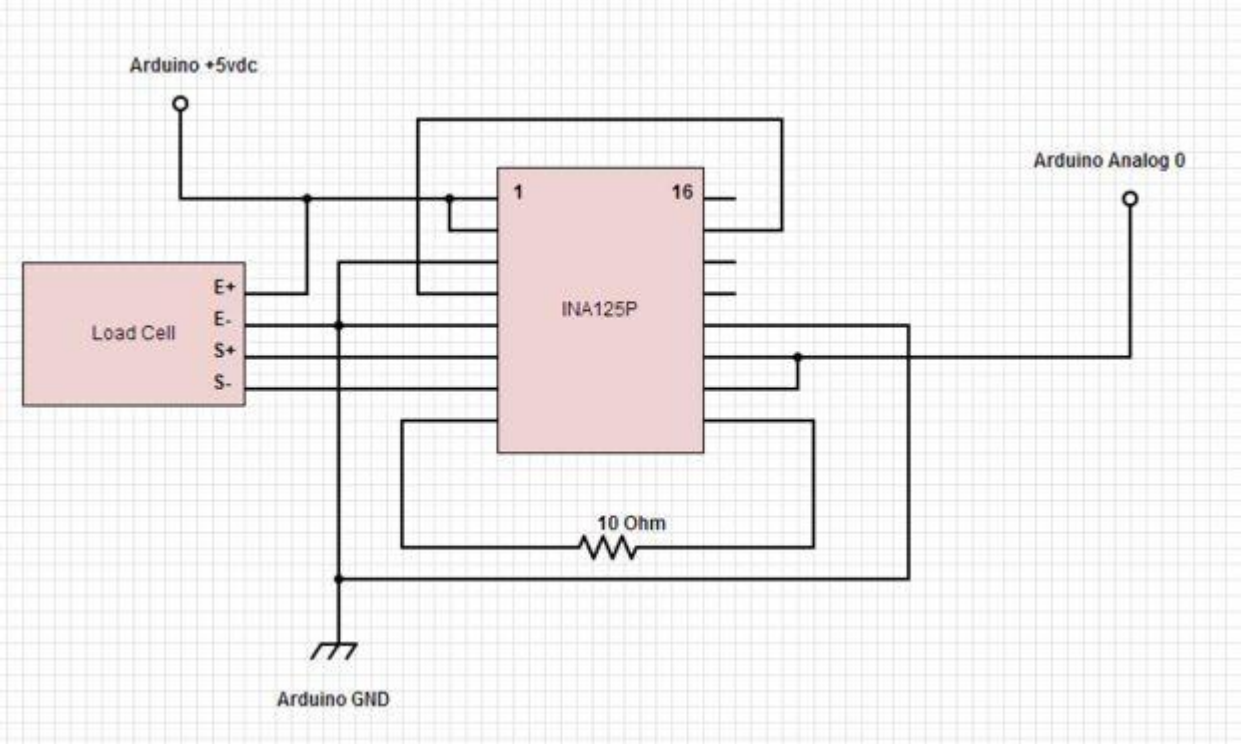


Fig 1. System working model

- The administrator here is the mobile phone in which the air-view application will work.
- The database will contain all the articles through Wikipedia. maps, flight details.



- The load sensor which will give the output as the weight of the luggage bag through Arduino coding.

Conclusion

Inspired by the features of existing system the application will involve more features and include deep charts for our country and make it more entertaining.

Future enhancement

After the model gets successful the moto is to promote my project to some luggage companies and making travelling more entertaining hiring people will update the data and make it easier to add more real-time features.

References

- http://ieeexplore.ieee.org/document/7164319/ - reference for the moving map system concept.
- Flightpath3D and flighttradar24 for tracking reference as they are the existing system.
- How it works from flighttradar24.
- Structures and Flowcharts: google