**­­­IN721 2016 Main Project Proposal By Astin Tiddy**

For my mobile project I would like to develop an android application that will have the ability to display available radio stations based on the GPS location of the mobile device. I have found myself from time to time seeking through the frequencies in the car not knowing what I’m listening too or not finding a station. If I had an app that could show me the available stations in my vicinity and show their frequencies, this would make it a lot easier.

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| Function Requirements |
| The system will access the GPS to retrieve the mobile devices coordinates. |
| The system will access a web service to retrieve a list of radio stations (XML or JSON). Maybe based on IP, coordinates or city name. |
| The system will display the radio stations to the user. |
| The system will also provide a separate activity for more information of each radio station. |
| The system will allow the user to mark a radio station with thumbs up or thumbs down so next time that radio station appears on screen they can see a rating. |
| The system will save marked radio stations in a SQL database. |

Web service documentation: <https://docs.google.com/document/d/12HNoXI-z40QLQiSi30g2qSWb8U9YbMd4u5_jrre-YTw/edit>