

# Project Requirements Document

SmartNet

## Team Members

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## Introduction

### Problem

Wi-Fi signal strength is very fickle and can vary from location to location within a building/residence. This leads to the emergence of dead spots, where the quality of the connection is significantly lower than advertised. ISP technicians need a way to determine where these dead spots are that they can place routers/extenders in optimal positions to minimize the spots' occurrences. There are Wi-Fi strength analyzers currently out there; however there are few good mobile ones.

### Our Solution

SmartNetwork is a mobile application that helps ISP technicians and/or residential users strategically setup Wi-Fi routers for maximum coverage. Users can generate a heatmap that displays the signal strength from the router to any points in the building. In addition, there is a Wi-Fi speed analyzer and video stream analyzer which users can use to test the connection from wherever they are.

## System Architecture Overview

Insert Diagram here

### User Stories:

## **Appendices**

### **Technologies Used:**