

# VISION

## *Dual-Alarm AM/FM Clock Radio*

### Introduction

a Dual-Alarm AM/FM Clock Radio is an alarm with two alarms mixed with a radio.

### Positioning

#### *Business Opportunity*

As technology improves people are using their smartphones to set up basic buzzer alarms. Our alarm clock radio allows users to set up no more than two alarms, as well as listen to their favorite radio stations all in one product. This allows the mix of the both, such as using a radio station for an alarm sound. Welcome the new morning with your favorite sounds!

#### *Problem Statement*

People don't have an efficient and up-to-date way of listening to a radio station. This allows that, plus the ability of having an alarm. All within a simple to use interface.

#### *Product Position Statement*

This product is for anyone of all ages that want to listen to music, have a clock, and/or have an alarm to wake up to.

### Stakeholder Descriptions

#### *Market Demographics*

Anyone of any age, male or female. There is a market niche needing to be filled.

#### *Stakeholder (Non-User) Summary*

Hardware manufacturer, and software developers.

#### *User Summary*

Anyone that needs an alarm or a radio.

#### *Key High-Level Goals and Problems of the Stakeholders*

#### *User-Level Goals*

Listener: Turns on the radio to listen to their favorite station.

Alarm user: Sets up and turns on up to two alarms.

#### *User Environment*

Home or office.

### Product Overview

#### *Product Perspective*

The product will be open source (Github).

#### *Summary of Benefits*

- Having two alarms allows for multiple times to set off alarms to wake the user or for some other reminder.
- The radio allows the user to listen at their leisure or use it as a less harsh alarm sound.

#### *Assumptions and Dependencies*

We assume the hardware will be able to use compiled JAVA.

### **Summary of System Features**

- Dual Alarm: allows the device to hold more than one alarm time.
- Alarm Options: Selection between Buzzer and Radio for the selected alarm.
- Readable Display with Automatic Dimming: Selection of LED color and brightness.
- Preset Radio Memory: Preset a radio station to an alarm.
- Battery Backup: Essential power source for outages or unplugging to keep the clock circuitry running.

### **Other Requirements and Constraints**