

<Team Oreo>

**<Dual Alarm AM/FM Clock Radio>
Vision**

Version <0.1>

<Team Oreo>

Revision History

Date	Version	Description	Author
January 26, 2017	0.1	First draft. To be refined primarily during elaboration.	Donovan Roseau

Vision

1. Introduction

We envision a dual alarm clock that is able to handle two alarms for the user.. The alarm should also play at the specified time set by the use in alarm mode. Setting the time should also be a capability, allowing the user to change the minute and time separately.

2. Positioning

2.1 Business Opportunity

There are not too many business opportunities for dual alarm clock, if any, since smartphones can hold far more alarms. They are also more resilient and provide more ease of use for users.

2.2 Problem Statement

New forms of clocks and alarms consist mainly of utilizing a smartphone to perform all of these functions. The problem with this is that phones may run out of battery life or even update its features during the time an alarm is set to play. The AM/FM dual alarm clock provides an alternative or back-up to the smartphone alarm system.

2.3 Product Position Statement

Dual alarm clocks are for people who need an alternative to modern, personal alarm systems or just need a backup in case there is a fault with their primary method. Some outstanding features includes being able to set two alarms and listening local radio stations. What differentiates it from the competition is the ability to receive power from an outlet and receiving backup energy from its batteries. This ensure that the clock will always have some source of power and will not power off unexpectedly.

3. Stakeholder Description

3.1 Key High-Level Goals and Problems of the Stakeholders

High Level Goal	Priority	Problems and Concerns	Current Solutions
Robust, resilient, and reliable alarm system	high	Difficult interface for user to understand Software not adjusting to daylight-savings-time Power outage that erases set alarms	Simple instruction manual for users to understand. And the batteries takes over as main power source when no power is received from outlet.

3.2 User-Level Goals

The users need a system to fulfill these goals:

- Set two alarms

- Play alarm at specified time
- Turn off alarm
- Set time of day
- Play various radio stations

4. Product Overview

4.1 Product Perspective

The dual alarm AM/FM clock radio will usually reside in a customer's home. It will be utilized as a alarm and radio for users and serve as either a primary or secondary source for an alarm clock or radio.

4.2 Summary of Capabilities

Supporting Feature	Stakeholder Benefit
Automatic detection of power source failure, thus switching to battery power.	Clock will almost never power off unexpectedly
Reception from local radio stations	Receive news and current, popular music from their area
Options to play radio station as an alarm or default alarm	Choice of alarm sound
Snooze option to set another alarm for 5mins after original alarm plays	Fast way to shut-off alarm and set another alarm with one button.

5. Summary of System Features

- Switch between AM/PM
- Power on and off
- Set time for hour
- Set time for minutes
- Set two alarms for user specified times
- Alarms plays at specified time
- Display current time of day