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|  | Work Breakdown Structure |
| 5/7/2013 | Graduate Capstone |

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# 0 Introduction

The purpose of this document is to show a detailed structure of the tasks in the project.

## 0.1 References

* <http://www.harborlightmanagement.com/Publications/WBS%20outline.pdf>

## 0.2 Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Date | Reason For Change | Version |
| Andy Bottom | 04/16/2013 | Created Work Breakdown Structure | 1.0 |

# Project

## Pre-Project

### Research

* + - 1. Mobile Development
      2. Implementation
      3. Restful Web Services

### Project Setup

* + - 1. Software
      2. Web Server
      3. Database
      4. Obtain Licenses

### Brainstorm Ideas

* + - 1. Chose Project
      2. Research
      3. Market Need

## Inception

* + 1. Vision and Scope Document
    2. System Scope
    3. Risks
    4. Work Breakdown Structure
    5. Setup Website Documentation
    6. Test Plan
    7. User Experience Guide
    8. User Manuals
    9. Developer Guide

## Design

### Overall System

### Database

* + - 1. ERD
      2. Structure
      3. Tables

### Web Services

* + - 1. Structure
      2. Diagram

### Phone Development

* + - 1. Class Diagram
      2. Design Pattern

## Development

### Database

* + - 1. Create Tables
      2. Implement SQL

### Web Services

* + - 1. Implement Database Query
      2. Implement URI Mapping

### Administrator Website

* + - 1. Classes
      2. Code-Behind
      3. User Interface

### Phone OS

* + - 1. Backend Code (Cross Platform)
      2. Windows Phone UI / Hookup
      3. Android UI / Hookup
      4. iOS UI / Hookup

## Testing

### Integration Testing

* + - 1. Web Service to Database
      2. Admin CMS to Web Services
      3. Web Services to Web Driver
      4. PCL to Web Services
      5. Windows Phone to PCL
      6. Android Phone to PCL

### Performance Testing

* + - 1. Database Connections
      2. Recursive Database Calls
      3. Web Service Response Time
      4. Web Service JSON File Size
      5. PCL Async Response Time

### User Acceptance Testing

* + - 1. Web Admin CMS
      2. Windows Phone
      3. Android Phone

### Web Services

* + - 1. Set up Correctly
      2. Expecting correct logic

### Web Admin

* + - 1. Valid Data Checking

### Phones

* + - 1. Backend Logic Correct
      2. Handle data effectively
      3. Effect UI / Self Intuitive
      4. Data Validation

## Release

* + 1. Effective Deployment
    2. Out to Marketplace

## Maintenance

* + 1. Bug Fixes
    2. Feature Updates