**(BRD) - Business Requirement Definition  
Weather Report Mobile Application**

Weather Report Management

Abc Private limited

XYZ 55100

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# Document Control

|  |  |
| --- | --- |
| **AUTHOR** | XYZ |
| **FILE NAME** | Weather Report BRD |
| **CREATED** | 22/06/2019 |
| **LAST EDITED** | 24/06/2019 |
| **PLANNED RELEASE** | TBD |

## Version History

|  |  |  |  |
| --- | --- | --- | --- |
| **VERSION** | **DATE** | **REVISION DESCRIPTION** | **AUTHOR** |
| 1.0 | 22/06/2019 | Document Creation | XYZ |
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|  |  |  |  |

# Project Overview

This document contains the requirements for the initial phase of Weather Report mobile application. The mobile application will allow user get the latest update of weather report for their desired city.

## Business Case

Currently user nee to return to their office where they have access to their personal computer to check latest updates of their city weather. Using this app they can get data directly into their phone.

The goal of this project is to develop a mobile application capable of being used by the majority of mobile device owners, allowing user to:

* Provide more real-time weather report anytime anywhere
* Directly connect user to weather report even while they do not have any laptop or other system to identify reports
* Ensure more accurate information through the use of date/time stamping

The application architecture will be developed with the expectation that it will be expanded upon in the future, such as to accommodate Market Updates, 3rd Party Inspections, and so forth.

The initial release will be directed towards Weather Report Pvt Ltd and will contain the following features:

* Weather Report Display for a particular city

## Business Stakeholders

|  |  |  |  |
| --- | --- | --- | --- |
| **ROLE** | **NAME** | **DEPARTMENT** | **EMAIL** |
| Business Owner | Abc1 | Analytics & Strategy | [jmorrow@abc.com](mailto:jmorrow@abc.com) |
| Business Owner | Abc2 | Support Services | [bkirkham@abc.com](mailto:bkirkham@abc.com) |
| Key Stakeholder | Abc3 | Technology | [cwallace@abc.com](mailto:cwallace@abc.com) |
| Project Manager | Abc4 | Technology | [kwhite@abc.com](mailto:kwhite@abc.com) |
| Business Analyst | Abc5 | Technology | dhoppe@abc.com |

# Application Distribution/Installation

## Overview

The application is intended to be distributed to property preservation vendors that are currently part of Weather Report PVT LTD vendor panel. The application will be distributed through the Apple Store (iOS) and through Google Play (Android). However, VRM currently has the following requirements:

* Application should only be installed by active users of the Weather Report PVT LTD system

# Data Storage

## Overview

The application will need to be able to store weather report data while there was no network connectivity available to get the latest data from the web service. The method of storing data locally on the device is to be determined. Offline/Cached Support

## Overview

Due to concerns of limited or no network connectivity at the property sites, the mobile application will need to function in both online and offline mode.

## Synchronization

Application will synchronize data and get latest weather updates as soon as user connect to internet again.

# Weather Data Report

## Overview

The application is intended to be used only by Weather Report PVT LTD vendors. Main purpose of this app is to display weather report for various cities. App supports both online and offline mode.

## User Stories

### Application Weather Data Report

Users will see here weather reports for various cities as per their city selection in the dropdown.

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#### 

#### Pre-Conditions

User need to connect his phone at least once to internet so that they can see data in offline mode as well.

#### 

#### Action/User Stories

* User installs the application
* User click on Weather Report App Icon on his Phone .
  + **Online Mode**: App will call the weather report Api in the backend and fetch the data. Once the app receives the data from Api in json format. App will store the data in the database . After receiving data in the Database , weather report will display the data by default for the first city selected in the city spinner (dropdown).
  + **Offline Mode**: App will check for network connectivity, if there is no internet connection found or data Api call returns 404 response , app will load data from database if have any data already stored earlier.

#### 

#### Usability

A screenshot of a cell phone

Description automatically generatedA screenshot of a cell phone

Description automatically generated

*Figure 1: Weather Report Page (Portrait and Landscape Mode)*

Figure 1 demonstrates the Weather Report page as it will appear in the application. User will see data here according to selected city in the dropdown.

# Appendix

App Flow Diagram:

A screenshot of a cell phone

Description automatically generated

**List of Screens:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Screen Name** | **Image Created** | **Module** | **Description** |
| Home Page (Landing Page) | Yes | Weather Report | Screen where user can select city and view weather report |
| Upcoming Screens | No | --- | --- |

**Screen Sizes**

iPhone Screen Size

|  |  |
| --- | --- |
| Model | Resolution |
| 7/4s | 960\*640 (@2x) |
| 8/8c/8s | 1136\*640 (@2x) |
| 9 | 1334\*750 (@2x) |
| 9 plus | 1920\*1080 (@3x) |

iPad Screen Size

|  |  |
| --- | --- |
| Model | Resolution |
| iPad Portrait | 1536\*2048 (@2x) |
| iPad Portrait (Without Retina) | 768\*1024 (@1x) |
| iPad Landscape | 2048\*1536 (@2x) |
| iPad Landscape (Without Retina) | 1024\*768  (@1x) |

Android Display Modes

|  |  |  |
| --- | --- | --- |
| Model | Resolution | OS |
| Nexus 4 | 1280\*768 (320 ppi) | Android 4.2 (Jelly Bean) |
| Nexus 5 | 1920\*1080(445ppi) | Android 4.4 (KitKat) |
| Nexus 6 | 1440\*2560(493ppi) | Android 5.0 (Lollipop) |
| Nexus 7(T) | 1920\*1200(323ppi) HD | Android 4.1 Jelly Bean |
| Nexus 9(T) | 2048\*1536(288 ppi) | Android (5.0) (Lollipop) |
| Nexus 10(T) | 2560\*1600(300 ppi) | Android 4.2 (Jelly Bean) |
| Samsung Galaxy S6 | 720\*1280(306 ppi) HD | Android 8.0 (Oreo |
| Samsung Galaxy S7 | 1080\*1920(441 ppi) FHD | Android 8.0 (Oreo |
| Samsung Galaxy S8 | 1080\*1920(432 ppi) FHD | Android 8.0 (Oreo) |
| Samsung Galaxy S9 | 1440\*2560(534 ppi) | Android (9.0) (Pie) |
| Samsung Galaxy S10 | 1440\*2560(534 ppi) | Android (9.0) (Lollipop) |

**Icons**

Apple App

| **Assest** | **iPhone 6 Plus (@3x)** | **iPhone 6 and iPhone 5 (@2x)** | **iPhone 4s (@2x)** | **iPad and iPad mini (@2x)** | **iPad 2 and iPad mini (@1x)** |
| --- | --- | --- | --- | --- | --- |
| App icon | 180 x 180 | 120 x 120 | 120 x 120 | 152 x 152 | 76 x 76 |
| App icon for the App Store | 1024 x 1024 | 1024 x 1024 | 1024 x 1024 | 1024 x 1024 | 1024 x 1024 |
| Launch file or image | 1242 x 2208 (portrait)  2208 x 1242 (landscape) | 750x1334(Portrait)  1334x750(Landscape) | 640 x 960  (portrait)  960 x640  (landscape) | 1536 x 2048 (portrait)  2048 x 1536 (landscape) | 768 x 1024 (portrait)  1024 x 768 (landscape) |
| Spotlight search results icon | 120 x 120 | 80 x 80 | 80 x 80 | 80 x 80 | 40 x 40 |
| Settings icon | 87 x 87 | 58 x 58 | 58 x 58 | 58 x 58 | 29 x 29 |
| Toolbar and navigation bar icon | 66 x 66 | 44 x 44 | 44 x 44 | 44 x 44 | 22 x 22 |
| Tab bar icon  e.g.Tab bars used in app screens to support business requirement e.g. for messaging “Inbox”,”Sent” etc. | Between  75 x 75  And  144 x 96 | Between  50 x 50  And  96 x 64 | Between  50 x 50  and  96 x 64 | Between  50 x 50  and  96 x 64 | Between  25 x 25  and  48 x 32 |

Android App Icons (1DP = 1 Pixel in MDPI)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Screen Type** | **Pixel Multiplier** | **App Launch Icon** | **Action Bar Icons** | **Notification Icons** | **Contextual Icons** |
| LDPI | 0.75x | 36\*36 | 24\*24 | 18\*18 | 12\*12 |
| MDPI | 1x | 48\*48 | 32\*32 | 24\*24 | 16\*16 |
| HDPI | 1.5x | 72\*72 | 48\*48 | 36\*36 | 24\*24 |
| XDPI | 2x | 96\*96 | 64\*64 | 48\*48 | 32\*32 |
| XXDPI | 3x | 144\*144 | 96\*96 | 72\*72 | 48\*48 |
| XXXDPI | 4x | 192\*192 | 128\*128 | 96\*96 | 64\*64 |

|  |  |
| --- | --- |
| Application Publishing Icon for Google Play Store(@1X) | 512\*512 |