|  |
| --- |
| **Mobile Apps** |
| **WOZMAC** |
|  |
| iJourney for airline travelers and iPetrol for road warriors |
|  |
| **Mark/Tero/Abdul** |
| **1/8/2017** |
|  |

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# Introduction

## Justification

Improve consumer user experience, productivity and ease of use by creating relaying real time info to the mobile devices. We are targeting accuracy in content and significant improvement in ease of use for consumers.

## Goals

Create a suite of mobile apps for individual consumers. And we can target the enterprise customers in the 2nd phase.

## Problem Scenario and Solution

The two apps are destined to solve a few problems for travelers, and provide them a solution that is easy to use and within one app as well as having the option to pay a nominal fee to have no ads being displayed.

iJourney is designed to have discount airline tickets to be able to be searched in an app rather than multiple websites and also buy the tickets, having a boarding pass displayed for the passengers.

iPetrol solves the issue for any car traveling connoisseur, who would not want to have any cheap fuel clogging their fuel lines and engine. The app allows them to input the range they have until they run out of fuel, and iPetrol searches for the nearest gas stations and the best route to those.

Of course, the apps will be morphed into more comprehensive feature sets in the coming years but won’t contain anything that is not needed by travelers.

The detailed feature set will be defined in the next few weeks and work will start right after. Planning to have continuous integration on GitHub and deploy for the public, to the Apple App Store as soon as the UAT testing has been finished.

## Requirements

This table can be modified according to system, project, change requirement etc.

### iJourney

|  |  |  |
| --- | --- | --- |
| **ID** | **Requirement** | **Priority** |
| 1 | Airline Discounts available in the app |  |
| 2 | Compare Travel Options between airlines or routes |  |
| 3 | Book Tickets after selecting the preferred route or discount |  |
| 4 | Make payments via Apple Pay or CC |  |
| 5 | Check In through the app |  |
| 6 | Boarding pass is delivered to the app |  |

### iPetrol Workflow Steps:

|  |  |  |
| --- | --- | --- |
| **ID** | **Requirement** | **Priority** |
| 1 | Input car range to empty |  |
| 2 | App gives nearest gas stations by distance from consumer |  |
| 3 | Select gas station |  |
| 4 | App displays the routes, shortest, fastest, recommended |  |
| 5 | Select favourable route |  |
|  |  |  |

## Partners and Dependencies

Who are our partners, vendors and clients?

# The Design

## Overview

### iJourney Workflow Steps:

1. View airline discounts for a selected city to city journey (APIs available)
2. Compare travel options i.e., stop overs
3. Book the ticket(s) using the app with apple pay, credit card etc.
4. Get confirmation in the app
5. Check in through the app
6. Boarding pass available in the app

### iPetrol Workflow Steps:

1. Input the range the car has until empty
2. View gas stations prioritized by distance from the consumer
3. Select the appropriate gas station
4. App gives the routes (shortest, fastest, least blocks)
5. Select the most favorable route and distance

## Functionality

1. iJourney will allow the consumers to manage discount tickets without searching for multiple travel and airline websites. Also allows them to manage their travel needs via one app rather than multiple accounts.
2. iPetrol will allow travelers to get the best fuel possible within range until their car fuel tank is empty. This takes into account; the quality of fuel dispensed by cheap gas stations and allows the automotive connoisseurs to avoid using bad quality fuel.

## User handling and scenarios

### User Story 1:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Story** | **Feature** | **Status** | **Dependency** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

### User Story 2:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Story** | **Feature** | **Status** | **Dependency** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

### User Story 3:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Story** | **Feature** | **Status** | **Dependency** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## External Components

### Dependencies

APIs

Developer Accounts

Website

GitHub

# Development, Test, Deployment Schedule

|  |  |  |
| --- | --- | --- |
| **Milestone** | **Definition** | **Acronym** |
| **Scope** | **Define, Feasibility, Justification** | **M0** |
| **Requirements and Design** | **Prioritize Requirements and Technical Design** | **M1** |
| **Develop** | **Development** | **M2** |
| **Test** | **Test, User Acceptance** | **M3** |
| **Deploy** | **Deployment of new Products to App Store** | **M4** |
| **Retrospective** | **Lessons Learnt Discussion to Improve the next project, phase or sprint** | **M5** |

* Related Documents

# SECURITY

## Introduction

## Control Points

## Vulnerabilities

What are the expected weak links in the app, network and systems?

## Safeguards

### Administrative Safeguards

Does the information flow encrypted or follow the security protocols?

Using Apple Pay, we might not have to worry about PCI Compliance.

### Technical Safeguards

Threat Assessment

Threat Modeling

Security Solution Design

Security Steps Implementation

* Related Documents

# Q&A

This section is a sounding board for questions by the team and stakeholders. Will be published on SharePoint FAQ section for the team.

# Appendix A: bugs reported

List of bugs during the project

# Appendix B: APIs

## iJourney

[TRIPIT](https://www.tripit.com/developer)

[PROGRAMMABLEWEB](https://www.programmableweb.com/news/top-10-travel-apis-uber-tripadvisor-and-expedia/analysis/2015/04/24)

[EXPEDIA](http://developer.ean.com/docs/)

[CONCUR](https://developer.concur.com/)

## iPetrol

[MYGASFEED API](http://www.mygasfeed.com/keys/api)

[NREL.GOV FUEL STATIONS](https://developer.nrel.gov/docs/transportation/alt-fuel-stations-v1/all/)

[NREL.GOV NEAREST FUEL STATIONS](https://developer.nrel.gov/docs/transportation/alt-fuel-stations-v1/nearest/)

[SPRYLOGICS GAS STATION SEARCH API](http://dev.sprylogics.com/gas-station-search-api/)

[GASBUDDY](http://gasbuddy.com)

# Completion Checklist

| **Date** | **Sign-off Name** | **Category** | **Requirement** |
| --- | --- | --- | --- |
|  |  | **PM** | Signed off on the requirements and design |
|  |  | **Dev.** | Signed off on technical design being complete |
|  |  | **Test** | Test cases have been created |
|  |  | **UI/UX** | Stakeholders are satisfied with the UI/UX design |
|  |  | **UAT** | App has been tested via focus groups |
|  |  | **Deployment** | Stakeholders have deployed the app into the market |

# Change History

|  |  |  |  |
| --- | --- | --- | --- |
| **Change** | **Changed By** | **Title** | **Date** |
| First Draft Completed | Abdul |  | 1/8/17 |
| Second Draft Completed |  |  |  |
| Submitted for Review |  |  |  |
| Final version |  |  |  |
|  |  |  |  |