Ravie Software Development Plan

# Introduction

This document details the planned development for Ravie.events, a website that allows organizations to plan and advertise events and social functions to their constituents.

# Deliverables

The project will have a soft launch before March 18th. This release will be a minimum viable product; users will be able to make groups, make events, make user accounts, and see events. All groups will be public in the beginning. However, there will be a suggestions box and the ability to RSVP. After launch, each week will consist of a week-long sprint that will deliver various new features until the end of the semester. Details are in the Schedule section

# Resources

* DigitalOcean droplet to host app
  + Node.js v5.6.0
  + MongoDB v3.2.1
  + Git v2+
* Workstation
  + Node.js v5.6.0
  + MongoDB v3.2.1
  + Git v2+
  + Sublime Text 3

# Project Organization

Since I am the only team member, I will assume all the following roles

## Front End Development

The application needs to look good and be functional on the surface. Users have to be able to click stuff and see information in a way that is attractive, is functional, and makes sense. It is my job to make sure the interfaces fit all these requirements.

## Back End Development

The front-end of the site needs to run on something. The site needs ways to interact with the database, including creating and fetching user profiles, groups, and events. It’s my job to develop APIs for my front end to use to get the data it needs, routes to send the correct files to the correct pages, and validation to make sure all data that flows into and out of my server-side code is accurate and in the proper format.

## Testing

Someone needs to use the site and make sure everything works. This means pretending to be a user and doing everything the user could possibly imagine doing. It means understanding the code, knowing where the vulnerabilities are, and trying to exploit them. In general, testing is trying to break the website in any way possible. I will be doing all this testing.

# Schedule

The following is the sprint/release schedule for Ravie.

## Week 10

* Launch
* Administrators will be able to invite other users to their group. They will be able to do this via either email address or account username.
* Administrators will be able to promote members of a group to administrator.

## Week 11

* Administrators will be able to remove people from groups
* Groups will be configurable to only allow users to post new events if these events are approved by an administrator
  + Administrators will have an interface (like an inbox) to review all posted events and approve or deny those they see fit

## Week 12

* Users will be able to filter upcoming events by distance
  + Every event has a location value. We will use the Google Maps API
* To avoid sending too much data, a group page will only display 10 events at a time
  + The user will be able to hit a “view more” button to get 10 more events

## Week 13

* Users will be able to upload their own banner images for events
* Users will be able to access a settings page for their account
  + The settings page will allow them to change their password
  + The settings page will allow them to update their email address
  + The settings page will allow them to manage which groups they belong to
  + The settings page will allow them to delete their accounts

## Week 14

* Users will be able to delete events they posted
* Administrators will be able to delete events
* Administrators will have access to their group’s configuration options
  + Users can change privacy settings for their group

## Week 15

* The login and signup pages will be embedded as modals in every page with a navbar (rather than being their own pages)
* This week is set aside for spillage from previous weeks.

## Week 16

* Stretch goal: Users will be able to search for events with various keywords in a group
* This week is mostly allocated for spillage from previous weeks

## Week 17

* I will present my project to the class

# GANTT Chart

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Activity | Start | Dur. | 9 | | 10 | | 11 | | 12 | | 13 | | 14 | | 15 | | 16 | | 17 | |
| Suggestions Box | 9 | 1 |  |  | |  | |  | |  | |  | |  | |  | |  | |
| RSVP | 9 | 1 |  |  | |  | |  | |  | |  | |  | |  | |  | |
| Launch! | 9 | 1 |  |  | |  | |  | |  | |  | |  | |  | |  | |
| Invite to group | 10 | 1 |  |  | |  | |  | |  | |  | |  | |  | |  | |
| Promote to Admin | 10 | 1 |  |  | |  | |  | |  | |  | |  | |  | |  | |
| Remove Member | 11 | 1 |  |  | |  | |  | |  | |  | |  | |  | |  | |
| Admin approval | 11 | 1 |  |  | |  | |  | |  | |  | |  | |  | |  | |
| Filter by distance | 12 | 1 |  |  | |  | |  | |  | |  | |  | |  | |  | |
| Limit events per page | 12 | 1 |  |  | |  | |  | |  | |  | |  | |  | |  | |
| Custom banner imgs | 13 | 1 |  |  | |  | |  | |  | |  | |  | |  | |  | |
| User settings | 13 | 1 |  |  | |  | |  | |  | |  | |  | |  | |  | |
| Delete Events | 14 | 1 |  |  | |  | |  | |  | |  | |  | |  | |  | |
| Group settings | 14 | 1 |  |  | |  | |  | |  | |  | |  | |  | |  | |
| Embed login/Signup | 15 | 1 |  |  | |  | |  | |  | |  | |  | |  | |  | |
| Search for events | 16 | 1 |  |  | |  | |  | |  | |  | |  | |  | |  | |
| Present | 17 | 1 |  |  | |  | |  | |  | |  | |  | |  | |  | |

# Task/Resource Table

|  |  |
| --- | --- |
| Resource | Task |
| Dustin | Every task |