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GAME PLAN:

5 sprints

Sprint 1 – planning

* Wireframes
* Drawings
* Idea of where we want to go
* Paper prototype
* SRS – features that should/could go in – what
* Research
  + Django
    - Why not flask?
    - Comes with admin tools
    - Can have multiple applications, makes it easier to compartmentalize
    - ORM - database admin by objects
      * Instead of having to do SQL queries, you can interact via objects
  + Nginx vs apache
    - Nginx is lightweight, easier to set up; better if limited resources
    - Apache was the industry standard so everyone used it - lots of documentation
  + Urban/rural busy, urban/rural not busy
    - No traffic - 11 minutes; with traffic 48 minutes (11) - urban busy HIGHLY affected
    - 48 minutes at peak OR no traffic (75a) - urban non-busy not as affected by traffic
  + What does Dublin bus do now?
    - What are the problems
  + Check out the competitors
    - Hit the road
    - Tfi
    - Busasaurus
  + Architectures
    - Different components that we need to use
    - Nginx vs apache
  + Data analytics model
    - Which one? Why?
  + Features
    - Research into competition, what we need.
  + User Experience/Interface
    - Research papers, making initial notes for lit review
* Storing data – same machine?
* Scraping weather this sprint – where do we store it?

Sprint 2

Sprint 3 – start machine learning

Sprint 4 – finish machine learning, front-end

Sprint 5 – final touches, front-end

Sprint 1

## 10 June 2019

Sprint planning meeting

* People present
* Topics for discussion
  + Jira
  + Git – becoming git masters
  + Starting project report - latex - citing (APA)
    - Shared latex available?
  + Presentation 1
  + Requirements vs wants - what would be *useful?*
* Structure and content of the presentation
* Create a sprint goal
  + Planning and basic site
* Decide how to achieve sprint goal (design)
  + Planning - should have a good idea of the architecture and justification
    - Database, UI, etc
  + Data scraping - weather
    - Best fit for weather
  + A website - bare bones
    - HTML and gmaps
    - Look into bootstrap
  + Wireframes
  + Research into the different features that we can use
    - Lit review
  + Come up with some things that we can do that are extra features
  + UX/UI - research
  + What else will we scrape
    - Concerts
    - Weather
    - Accidents
    - Roadworks
    - Holidays
    - When school is in or out
  + Store everything on one machine - the virtual machine given
  + Data
    - Rt-trips and rt-leavetimes - key will be tripid
    - Stops.txt - need to extract the last 4 digits from the stoppointid
* Create sprint backlog from product backlog items
* Estimate sprint backlog in hours
* Next meeting date and time

### 11 Jun

Daily standup

* What did you do yesterday? What will you do today? Is anything in your way?
  + Ankhit – slides, mockups - possible questions for presentation, django for server - no
  + Candis – 2 hours on presentation, 2 hours researching machine learning - presentation - no
  + Clare – research for slides - 2 questions for presentation, start bibliography, github workflow - no
  + Enxi – slides for presentation - 2 questions, set up the server - no

### 

### 12 Jun

Daily standup

* What did you do yesterday? What will you do today? Is anything in your way?
  + Ankhit – django, uwsgi vs gunicorn, ui/ux papers - send ui/ux papers, drawings - damn server
  + Candis – presentation - django tutorials, notes on other apps - no
  + Clare – github workflow, research paper, bibliography, qs for presentation - start another paper, finish github workflow, make notes on other apps, django tutorial - no
  + Enxi – fix server - set up server and mysql - no

### 13 Jun

Daily standup

* What did you do yesterday? What will you do today? Is anything in your way?
  + Ankhit – Set up Django, messed around with settings, Research into UX/UI and did drawings - Continue on Django and further research on UI - no
  + Candis – presentation 1 - finish django tutorials, github workflow - no
  + Clare – Worked on Git yesterday looking over workflows, Django tutorials, Paper to annotate, haven’t started yet, Put document on drive to review apps - Will start reviewing apps (2 a day), Web technologies to help with UI - no
  + Enxi – Worked on setting up the server, added mySQL, set up the virtual environment - Test connection to database, create table, weather API stuff - Blocked by weird connection issues to mySQL in mySQL workbench

# 17 June 2019

Planning, review and retrospective!

* People present
  + all
* Recap from last meeting
  + What did you do yesterday? What will you do today? Is anything in your way?
    - Ankhit – sketches of mobile ideas, general outline of django, map of how to get data into sql, 30 years historical data dublin -
    - Candis – reviewed 2 apps, django -
    - Clare – stats, acceptance testing, traffic data - play around in the server
    - Enxi – django research, articles about bootstrap, wrote a bit about setup
* Key discussion points and decisions
  + Acceptance testing - if they can carry out the task,then it would pass the test
* Updated burndown chart
* Next steps
  + Need to all look at the app review and make comments/do more reviews
  + Rank the features - what architecture will need
  + Make sketch of mobile and desktop
  + Schedules and roles
  + Detailed requirements and architecture
* Next meeting date and time
  + Tomorrow after doctors appointment

# 18 June 2019

Planning, review and retrospective!

* People present
  + All
* Recap from last meeting
  + What did you do yesterday? What will you do today? Is anything in your way?
    - Ankhit – django
    - Candis – list of features, looked at features
    - Clare – reviewed 2 more apps, mysql, web tech
    - Enxi – list of features, reviewed comments
* Key discussion points and decisions
  + Rank the features - what architecture will need
    - Journey planner - gives accurate estimate of travel time
      * origin/destination
      * time/day
      * Weather
      * Journey time estimation
      * Map
        + Nearby bus stops, filterable by route?
        + Clearly showing which side of the road you need to be on
    - Interactive search on map - place name, address, bus route, stop
    - Multi-modal
    - Navigating to the bus stop with different colors
    - Fare calculation
    - List of bus routes - both directions with all stops shown on map
      * Last bus
    - Nearby bus stops
      * With timetable for each route at that bus stop
    - Favorites
      * Stops, places, trips
        + Take me to work/home
      * Search history
    - Travel warnings
    - alarm/alert
    - Co2 calculation
  + UI
    - Slash screens for loading
    - Easter egg
      * Stop at Ucd library??
    - Gaining access to their location and notifications
  + Make sketch of mobile and desktop
    - On google drive
  + Schedules and roles
    - Clare and candis - work on the home page - getting it set up
    - Enxi - difference between sql and nosql
    - Presentation 2 - clare
    - Presentation 3 - ankhit
    - Presentation 4 - enxi
  + Detailed requirements and architecture
    - See below
* Updated burndown chart
* Next steps
  + Ssh into the server and look through django
* Next meeting date and time

#### Overview of each page in our web app

On every page you see five tabs:

Home, Journey Planner, Routes, Favourites, More

##### **1. Home**

* Map centric User Interface. All stops are shown, no routes are defined
* By default, the map shows where you are now and the stops around you
* User story is based around geographic search:
  + You are searching the map by location or stop number
  + Map will move to reflect search
* User clicks on each stop for a ‘more info’ popup:
  + Which routes stop here
  + “Real time info”
  + When last bus of a particular route is expected to hit this stop
  + Arrow to show travel direction of the buses
* Suggestion for users - ‘Travel to this location?’ This opens the journey planner tab, with ‘current location’ set as start (empty if location services are off) and this stop as the destination’ as defaults

Wishlist: Select a particular bus from real time stop info. A CSS sliding animation: all stops on the route, where that specific bus is now.

##### 

##### **2. Journey Planner - 2 parts to this tab**

Part 1: Input

* Start
* Destination
* Time
* Date

Part 2: Result

* Split screen, top and bottom
  + Top is a map, which shows the full route
  + Different modes of travel are in different colours
* Bottom is a condensed list of directions, each by stage
  + Bottom half is scrollable
  + Each stage, when clicked, expands to give more detailed info on the route
  + When each stage is clicked, the map zooms to focus on that specific section of the route
* Fare calculation (overall route, maybe a breakdown of price at each stage?)
* Tabs for route suggestions by price, walking amount, shortest time
* Arrow on bus stop on map - direction of bus
* **Overall Journey time estimation**

##### 

##### **3. Route tab**

Input a bus route number to search

* shows the full route, both ways, marked out
* Info: time last bus leaves terminus

**4. Favourites**

* add trip to favourite trips
* add stop to favourite stops
* 3 special names “home, school, work”

Every favourite selection should bring you back to journey planner

* Favourite trip: both start and destination are input
* Favourite stop: from current location, destination is favourite stop
* Special name: from current location to that place

**More**

* news updates/bulletin: probably an RSS feed?
* Weather update
* CO2 content
* alarm

### 19 Jun

Daily standup

* What did you do yesterday? What will you do today? Is anything in your way?
  + Ankhit –
  + Candis – researched traffic info - bootstrap/django tutorials
  + Clare – bootstrap/django tutorials - more of those
  + Enxi – difference between sql and nosql

### 20 Jun

Daily standup

* What did you do yesterday? What will you do today? Is anything in your way?
  + Ankhit – cleared out my Django tests from the server so Clare and Candis can start the Map page of our app! So you guys will have a clean working space. I also did an app review which I will paste in later today once I'm back in front of my laptop after lunch. - I found a good tutorial on bootstrap for mobile I can link here in a bit too which might be useful for everyone. I'll also do a write-up of our data to explain the connections and problems we might run into.
  + Candis – bootstrap django tutorials - setting up the home page
  + Clare – bootstrap django tutorials - setting up the home page
  + Enxi – tried instructions for django - weather scraping

### 21 Jun

Daily standup

* What did you do yesterday? What will you do today? Is anything in your way?
  + Ankhit – going through some of those tutorials I sent in, got that historical weather file which I uploaded yesterday and finished an app review which I keep forgetting to upload - a lit review - no
  + Candis – worked with clare on setting up the django apps - work on creating wireframes, put all our docs from the last two weeks on github, do at least one annotated bibliography and provide any support to clare she needs - no
  + Clare – setting up the django app with candis, did a bit more on bootstrap - i'm planning to try out the django mobile bit, setting up the bootstrap grid for our hompage, draft a response to the garda siochana email, and we can talk it over on monday - no
  + Enxi – worked the weather historical data, and found websites of some events or accident data - weekly report and study more about Django - no

# 24 June 2019

Sprint planning meeting

* People present
* Recap from last sprint
  + What did you do yesterday? What will you do today? Is anything in your way?
    - Ankhit –
    - Candis –
    - Clare –
    - Enxi –
* Topics for discussion
  + Nosql vs mysql
* Structure and content for the presentation
* Analyse and evaluate product backlog to create a sprint goal
* Decide how to achieve sprint goal (design)
* Create sprint backlog from product backlog items
* Estimate sprint backlog in hours
* Next meeting date and time

### 

### day Mo

Daily standup

* What did you do yesterday? What will you do today? Is anything in your way?
  + Ankhit –
  + Candis –
  + Clare –
  + Enxi –

# day Month 2019

Planning, review and retrospective!

* People present
* Recap from last meeting
  + What did you do yesterday? What will you do today? Is anything in your way?
    - Ankhit –
    - Candis –
    - Clare –
    - Enxi –
* Key discussion points and decisions
* Updated burndown chart
* Next steps
* Next meeting date and time

# day Month 2019

Sprint planning meeting

* People present
* Recap from last sprint
  + What did you do yesterday? What will you do today? Is anything in your way?
    - Ankhit –
    - Candis –
    - Clare –
    - Enxi –
* Topics for discussion
* Structure and content for the presentation
* Analyse and evaluate product backlog to create a sprint goal
* Decide how to achieve sprint goal (design)
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* Next meeting date and time