

# FlatFinder

GROUP 3

# Objective

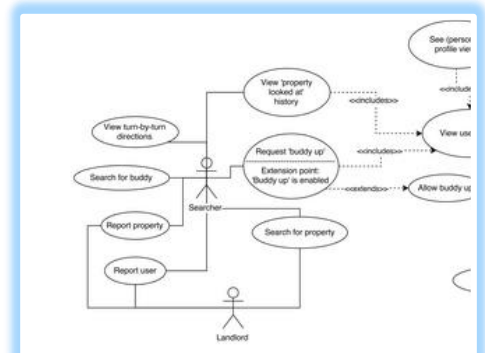
- ▶ help students and professionals find accommodation near their universities and workplaces.
- ▶ cater for short-term or long-term stays.
- ▶ usable on both desktop and mobile devices.
- ▶ users should be able to connect with other users.
- ▶ users can share experiences of living at properties.
- ▶ search for properties using various criteria.
- ▶ provide different interfaces for different user types.

# Requirements

- ▶ Extracted requirements from case study
- ▶ Refined our understanding through meeting with FDM
- ▶ Created a specification document to convert requirements into features.
  - ▶ Prioritised features with Must, Should, Could notation.
- ▶ Created the project back-log comprising of each use-case from the specification using Gherkin notation.

Use Case priority table

High	High	Medium	Low
View turn-by-turn directions	Password recovery	Report property	View property looked at history
Search for buddy	Password encryption	Report user	See (personal) profile views
Request buddy up	Access mail interface	Give feedback/ratings	See property views
Search for property	Review interest alert	Switch view	
View user profile	View property page	Generate local amenities	
Allow buddy up	Express interest	Generate statistics	
Register for an account	Generate map	Generate local transport links	
Send message	Upload property	View confidential statistics	
Read message	Upload pictures	View all properties	
Submit route information	Upload information	Message (all) users	
Login	Delete account	Expire account	
	Suspend account		



1. Visitor interaction

Req	Description	Comments
1.1	[Must have] the ability for a searcher to find properties by postcode, start date and end date and price range.	Price range calendar month
1.2	[Must have] the ability to view the site on both desktop and mobile	This can be dependent on mobile interface
1.3	[Must have] the ability for visitors to register for an account based on their needs e.g. is the visitor a student / professional or landlord.	
1.4	[Must have] the ability for a registered landlord to add a new property to the system.	
1.5	[Must have] the ability for visitors to be able to log in to their account.	
1.6	[Must have] different views dependent on role.	The appearance clear as to the

# Requirements

- ▶ Good user stories are at the heart of team workflows
- ▶ Popular story format
- ▶ Story writing is **teamwork**
- ▶ Use language that is **easy** to understand
- ▶ User stories have to have a **clear business value**

## Gherkin notations (Detailed feature specification)

Feature: BuddyUp priority: HIGH completion: finished

As a searcher who is looking for a buddy  
I want to search for a buddy  
In order to send them a request to be buddies

@controller

Scenario: send a buddy request  
Given im the user "Alice" on the profile page  
When im sending the buddy request to "Adam"  
Then the buddy request for "Alice" to "Adam" should exist

@controller

Scenario: notification for buddy request  
Given im the user "Adam" on the notification page  
When click the notification from "Alice" to buddyup  
Then the notification for "Adam" is displayed

@controller

Scenario: accept buddy request  
Given im the user "Adam" on the notification page  
When ive clicked to accept the buddy request from "Adam"  
Then the user "Adam" is a confirmed buddy

@controller

Scenario: reject the buddy request  
Given im the user "Adam" on the notification page  
When ive clicked to reject the buddy request from "Adam"  
Then the user "Adam" is not a confirmed buddy

@controller

Scenario Outline: making multiple buddy requests  
Given Im logged in as user id <INITID>  
When made buddy request to user id <RESPID> from <INITID>  
Then after the <RESPID> and <INITID> the total buddy requests are <TOTAL> when the response is <RESPONSE>

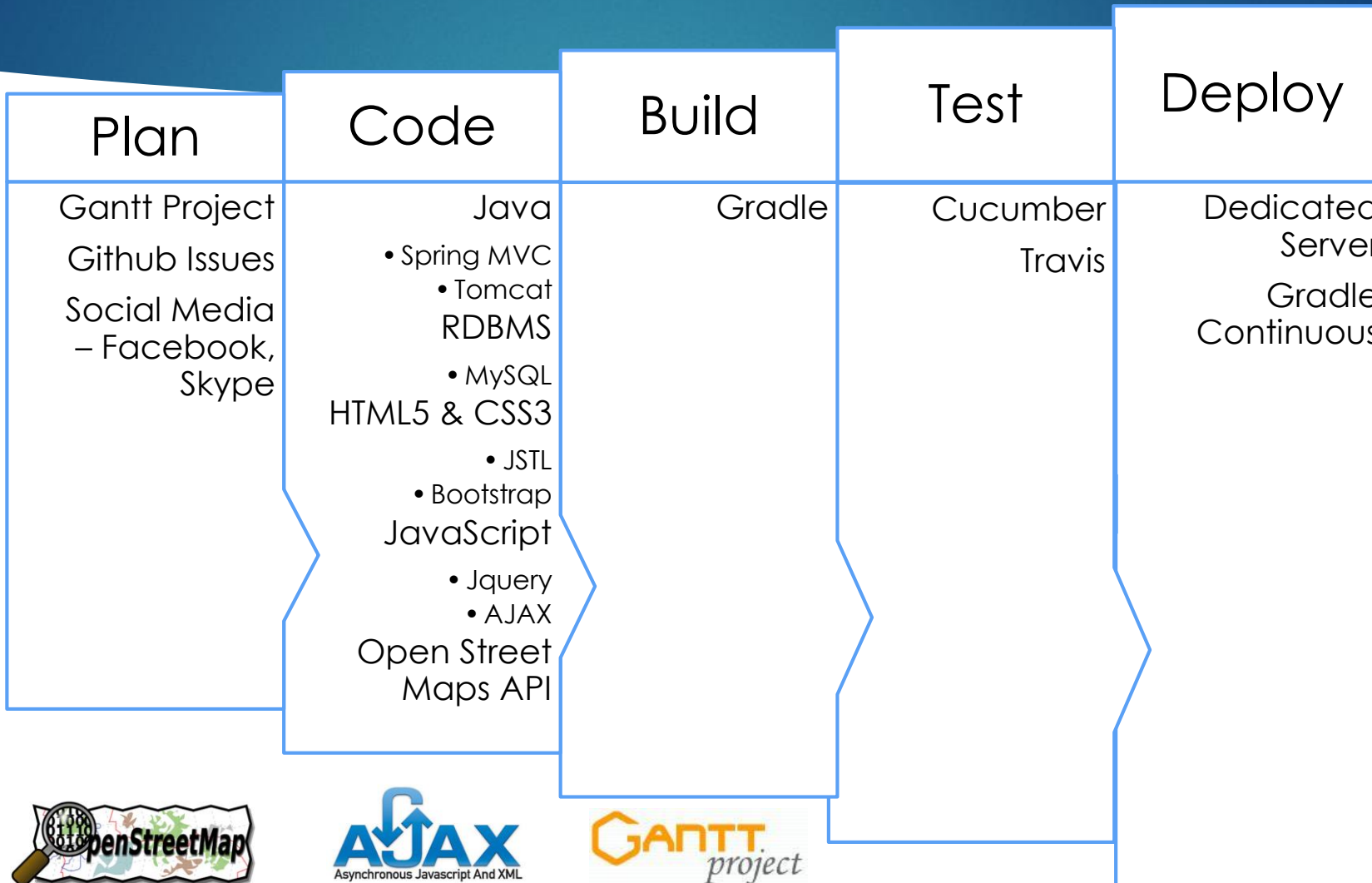
# Technologies

JSTL

GitHub



spring



MySQL



Travis CI



# Requirements Demo

## General

- ▶ Responsive design.
- ▶ Consistent design throughout.
  - ▶ Navigation
  - ▶ Colour Scheme
- ▶ Matched Requirements
  - ▶ *“Must have the ability to view the site on both desktop and mobile.”*
  - ▶ *“Must have different views dependent on role.”*

# Requirements Demo

## Login & Registration

- ▶ **Register** *As a site visitor I want to find a room for rent or add property to rent*
  - ▶ User Types – Searcher, Landlord
  - ▶ Spring Security
- ▶ **Login feature** *As a site member I can log in at any time So that I can use site system feature*
  - ▶ Different options are presented to different users
  - ▶ Account status – Suspended or Active
  - ▶ Accounts expire if not logged in for 30 consecutive days
- ▶ **Matched Requirements**
  - ▶ “Must have the ability for visitors to register for an account based on their needs e.g. is the visitor a student / professional or landlord.”
  - ▶ “Must have the ability for visitors to be able to log in to their account.”
  - ▶ “Must have the ability for administrators to expire accounts after a predetermined period of time.”

# Requirements Demo

## Property Search

- ▶ **Property search** *As a site member I can use a search box so that I can find accommodation to rent*
- ▶ *Basic search by Postcode*
- ▶ *Advanced search by other parameters*
- ▶ *Matched Requirements*
  - ▶ *“Must have other selectable search preferences such smoking / non-smoking, undergraduate / postgraduate, quiet / lively atmosphere, room type etc.”*
  - ▶ *“Must have the ability for a searcher to find properties by postcode, start date and end date and price range.”*



# Requirements Demo

## Property Search cont. – Results & Map

- ▶ *Open Street Map implementation*
- ▶ *Property results returned*
- ▶ *Matched Requirements*
  - ▶ *“Must have returned results on a customized OpenStreetMap map along with distances to work or university.”*
  - ▶ *“Should have public transport and local amenities displayed on the OpenStreetMap map.”*
  - ▶ *“Should have the ability to allow searchers to click on a property and view the property page.”*
  - ▶ *“Should have the ability to switch properties listed on the map based on long term or short-term stay properties.”*

# Requirements Demo

## Property Search cont. – Results & Map

- ▶ *Property page*
- ▶ *Express Interest*
- ▶ *Property Feedback*
- ▶ *Matched Requirements*
  - ▶ *“Must have an 'express interest' button available on each property page when logged in as a searcher”*
  - ▶ *“Must have the ability to notify landlords that a searcher has expressed an interest in their property.”*
  - ▶ *“Must have the ability for searchers to express an interest in a property without messaging a landlord directly.”*

# Requirements Demo

## Notifications

- ▶ *Express Interest notifications for landlords.*
- ▶ *Buddy-up notifications for searchers.*
- ▶ *Report notifications for administrators*
- ▶ *Matched Requirements*
  - ▶ *“Must have the ability to notify landlords that a searcher has expressed an interest in their property.”*
  - ▶ *“Must have the ability to notify users when another user has expressed interest in “buddying up” with them.”*
  - ▶ *“Must have the ability for an administrator to receive report notifications from searchers and landlords.”*

# Requirements Demo

## Profile View

- ▶ *Notifications and profile view counter.*
- ▶ *Edit stored personal data and change password.*
- ▶ *Opt-in and out of buddy-up system.*
- ▶ *Add interests and see recommended buddies based on interests.*
- ▶ *Buddy search feature and make requests.*
- ▶ *Send messages to buddies.*
- ▶ *View properties interested in.*

# Requirements Demo

## Profile View cont.

### ► Matched Requirements

- *"Must have the option for a user to update their profile."*
- *"Must have the ability to match potential buddies based on requirements and preferences."*
- *"Must have the ability to allow searchers to message each other."*
- *"Must have 'buddy up' button available on user's profile page, to be clicked by other users"*
- *"Must have 'buddy up' option with other searchers that can be selected when initially registering with the site."*
- *"Must have the ability for searchers to see analytic information on their profile including profile views"*
- *"Must have option for users to create an account and upload information"*

# Requirements Demo

## Messaging

- ▶ *Real time messaging.*
- ▶ *Sending and Receiving.*
- ▶ *Conversation / Messaging threads.*
- ▶ *Matched Requirements*
  - ▶ *“Must have the ability to allow searchers to message each other.”*

# Requirements Demo

## Landlord Specific Features - Properties

- ▶ *Adding a property.*
- ▶ *Adding rooms to properties.*
- ▶ *Editing properties.*
- ▶ *Matched Requirements*
  - ▶ *“Must have the ability for a registered landlord to add a new property to the system.”*
  - ▶ *“Must have the ability for landlords to upload both information and images about their property.”*

# Requirements Demo

## Landlord Specific Features - Analytics

- ▶ *Number of Property Views*
- ▶ *Number of Searchers who have expressed interest.*
  - ▶ *“Must have the ability for landlords to see analytic information on their properties including number of views and similar historical data.”*



# Requirements Demo

## Admin Specific Features

- ▶ *Managing user accounts.*
- ▶ *Mass user messaging.*
- ▶ *Managing properties.*
- ▶ *Reports*
- ▶ *Matched Requirements*
  - ▶ *“Must have the ability for administrators to message all user accounts.”*
  - ▶ *“Must have the ability for administrators to suspend or delete user accounts.”*
  - ▶ *“Must have the ability for an administrator to receive report notifications from searchers and landlords.”*
  - ▶ *“Must have the option to ‘view all’ when logged in as an administrator, in order to see all currently uploaded properties”*

ANY QUESTIONS?

THANK YOU