

Project Plan

Individual project

Tutor \*\*

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## Client

Our client is FlyAway *inc.* FlyAwayis a small travel agency aimed towards individuals and small groups.

## Team

We are N.E.R.T.Z software solutions, a group of 12 software engineers. We consider ourselves a modern small business, so we are all equal representatives of the company. Our clients are free to contact us using email or MS Teams on the designated group chat.

* Contact info: [contact@NERTZ.com](mailto:contact@NERTZ.com)
* Mon – Fri: 09:00 – 17:00

## Current situation

As of now FlyAway Inc does not have a software system to Display the available flights and compare the prices from different airlines. N.E.R.T.Z software solutions agreed to work with FlyAway in order to build a system that will be able to retrieve all information of all flight at a specific date to a specific destination.

## Problem description

FlyAway Inc. requires a website. Initially the software should support flights search engine but should be extendable to other categories like hotels, car rentals etc. The RESTful API will take the form of a Spring Boot software written in Java, while the website will be a React application. These are the key components of the project.

The applications will be tackled in agile method as outlined in the Milestones chapter of this document. Each week the aim is to deliver a new component, including documentation. Week 18 will be the end of the project timeline, at which time a well-documented and tested application should be ready.

## Project goal

As a user I will be able to search for a flight to my desired destination, I will get a list of all the flights, and I could compare the prices of them. I will also be able to purchase the ticket or track the price and buy it in a later date.

## Project Components

### Deliverables

1. Project plan document.
2. Database design diagram.
3. Application UML diagram.
4. Test plan document.
5. Test results document.
6. Backend application.
7. Frontend application.
8. Database.

### Non-Deliverables

1. No hardware components will be provided.

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### Constraints

1. No real test data is available beyond the assignment guide lines.
2. User experience is to function as expected from modern applications.
3. The backend application must be written in Java and use spring boot.
4. The website must be created in a framework, like React.
5. A database must be used.
6. Source code will be on the Fontys GitLab.

## Backlog

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| ID | User story | Priority |
| 1 | As a visitor or a user, I want to search for a flight ticket so I can compare the options and get the best price. | Must |
| 2 | As a visitor I want to sign up so I can get full access to all the available features. | Must |
| 3 | As a visitor or a user, I want to order a flight ticket so that I can travel. | Must |
| 4 | As a user, I want to be notified when the price changes so that I can get the best price. | Should |
| 5 | As admin, I want to see some statistics from the users’ searches, so that I can see how my website preforms. | Should |
| 6 | As a user, I want to edit my personal info so that the info will be up to date. | Should |
| 7 | As a visitor or a user, I want to change the website language so can see it in my native language. | Nice to have |
| 8 | As a visitor or a user, I want to change the shown currency so that the price will be shown in my local currency. | Nice to have |
| 9 | As a visitor or a user, I want to have my departure point automatically filled so that I would not have to search for it. | Nice to have |
| 10 | As a user, I want to get the cheapest flight from my selected departure so that I can travel as cheap as possible. | Should |
| 11 | As a visitor or a user, I want to search for a hotel so I can compare the options and get the best price. | Nice to have |
| 12 | As a visitor or a user, I want to search for a car rental so I can compare the options and get the best price. | Nice to have |

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| US-1 | Priority: Must | Effort: 7 days |
| User story:  As a visitor or a user, I want to search for a flight ticket so I can compare the options and get the best price. | | |
| Acceptance criteria:   * Given that I filled in the search criteria * When I’m trying to search for a flight * Then all the flights that co respond to my search criteria will be shown. | | |

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| US-2 | Priority: Must | Effort: 1 day |
| User story:  As a visitor I want to sign up so I can get full access to all the available features. | | |
| Acceptance criteria:   * Given that I filled in the required fields * When I’m trying to sign up * Then I will be able to get access to all the available features. | | |

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| US-3 | Priority: Must | Effort: 2 days |
| User story:  As a visitor or a user, I want to order a flight ticket so that I can travel. | | |
| Acceptance criteria:   * Given that I choose a flight * When I’m looking for flights * Then I’m able to book the flight ticket. | | |

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| US-4 | Priority: Should | Effort: 4 days |
| User story:  As a user, I want to be notified when the price changes so that I can get the best price. | | |
| Acceptance criteria:   * Given that I’m logged in * I want to be notified when the ticket price changes * Then I will get notification when the price changes. | | |

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| US-5 | Priority: Should | Effort: 1 day |
| User story:  As admin, I want to see some statistics from the users’ searches, so that I can see how my website preforms. | | |
| Acceptance criteria:   * Given that I’m logged in * When I open the admin dashboard * Then I can see the users’ statistics. | | |

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| US-6 | Priority: Must | Effort: 1 day |
| User story:  As a user, I want to edit my personal info so that the info will be up to date. | | |
| Acceptance criteria:   * Given that I’m logged in * When I go to my profile * Then I can edit my info. | | |

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| US-7 | Priority: Nice to have | Effort: 3 days |
| User story:  As a visitor or a user, I want to change the website language so can see it in my native language. | | |
| Acceptance criteria:   * Given that I have the website open * When I’m trying to change the website language * Then the language will be changed to my chosen language. | | |

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| US-8 | Priority: Nice to have | Effort: 2 days |
| User story:  As a visitor or a user, I want to change the shown currency so that the price will be shown in my local currency. | | |
| Acceptance criteria:   * Given that I have the website open * When I’m trying to change the website currency * Then the shown prices will be changed to my chosen currency. | | |

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| US-9 | Priority: Nice to have | Effort: 6 days |
| User story:  As a visitor or a user, I want to have my departure point automatically filled so that I would not have to search for it. | | |
| Acceptance criteria:   * Given that I have the website open * When press the auto fill location button * Then the origin field will be filled with the closest airport to my location. | | |

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| US-10 | Priority: Should | Effort: 4 days |
| User story:  As a user, I want to get the cheapest flight from my selected departure point so that I can travel as cheap as possible. | | |
| Acceptance criteria:   * Given that I’m logged in * When I search for the cheapest flight from my departure airport * Then I will be shown the top 3 cheapest destinations. | | |

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| US-11 | Priority: Nice to have | Effort: 5 days |
| User story:  As a visitor or a user, I want to search for a hotel so I can compare the options and get the best price. | | |
| Acceptance criteria:   * Given that I filled in the search criteria * When I’m trying to search for an hotel * Then all the hotels that co respond to my search criteria will be shown. | | |

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| US-12 | Priority: Nice to have | Effort: 5 days |
| User story:  As a visitor or a user, I want to search for a car rental so I can compare the options and get the best price. | | |
| Acceptance criteria:   * Given that I filled in the search criteria * When I’m trying to search for a car rental * Then all the car rentals that co respond to my search criteria will be shown. | | |