Vrije
Universiteit
Brussel

Capita Selecta Software Engineering Project 2015

David Sverdlov, 94351, dsverdlo@vub.ac.be

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1 Introduction

This deliverable documents the different steps taken in the project for the course Capita Selecta of Software Engineering, taught by Maja D'Hondt at the Vrije Universiteit Brussel. The goal of the project is to improve an existing program by means of automated unit testing and refactoring. The project is individual unless a team of 2 people has been approved. The chosen project is the Android application 'AMuRate', which was a part of my bachelor's project. This has been proposed and approved in one of the first lectures and will be first be described before moving on to the different steps of this project.

2 AMuRate

AMuRate is the name of the Android application, developed to collect music ratings and ultimately present new music according to the taste of the users. The app is developed for Android 4 and provides an easy to use user interface. Users do not even have to sign up to be able to use the app because there are identified by their phone id. The first thing users have to do is enter some search terms. These can be partial or full keywords, and there is an input field for artist names, and one for song names. Users can choose if they fill in one or two fields (if they do not enter any information a pop up will notify them that they might have forgotten this step). The app the queries the Last.FM database and will display a list of the results. Last.FM has been chosen because they provide a free to use API and has an enormous music

database. Users can click on any of the results and view the details of a chosen artist or song. The average rating is shown and the user can give a rating of their own, on a scale of 0 - 5. These ratings are stored on my database, with the purpose of applying recommendation algorithms on this data. This way we could recommend new music to our users according to their taste. The implementation and employment of the recommendation systems fell out of the scope of the bachelor project. For more information about the application I refer to the project report[1].

3 Project Setup

The setup for this project will consist of a source code repository on Github, located at `https://github.com/dsverdlo/AMuRate_CSSE`, this report and the story maps created on StoriesOnBoard[2]. The report and iterations of the story map can also be found on this repository.

4 Story Map

As mentioned before, the story map will be created with the tool StoriesOnBoard. This tool provides the means to compose a big map of all required activities and tasks. The map can be exported as a XML, JPG or PDF file, and releases can be set. For the first step in this project, we have mapped our stories to this tool. The result has been exported and can be seen below.

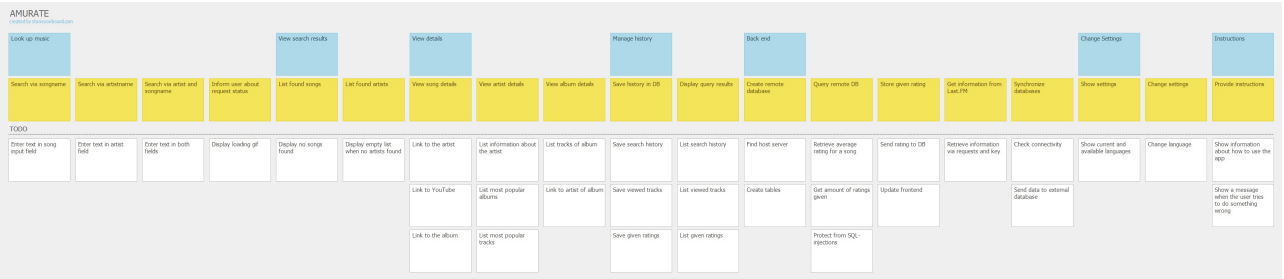

Figure 1: `https://raw.githubusercontent.com/dsverdlo/AMuRate_CSSE/master/images/storymap1.jpg`

[1] `https://github.com/dsverdlo/AMuRate/blob/master/Log/LaTeX/Bachelorproef.pdf`
[2] `http://storiesonboard.com/`

5 Identifying risks

6 Planning