**Release and Sprint Plans**

**Team Number**

|  |  |
| --- | --- |
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Tutor: Ms. Afsaneh Bahmani

Version: 2

Date: 15/08/16

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Release Plan

# Release 1

Delivery date: 22nd September 2016 Total Story Points: 157

The Goals of the first release is to deliver all of the must-have features to the client. These features should allow the client to demo the basic functionality of the website. The features being implemented are Registration and Resource Management. By the end of the release, new students and parents should be able to register and apply for lessons and a basic inventory tracking system should be in place.

## Student and Teacher Registration

This should allow for the accounts to be made, lessons to be booked and instruments to be assigned. By implementing student and teacher registration, the music school will have greater ability to access and use student and teacher files from various places, with safer and more reliable storage. It will also provide a more efficient and convenient gateway for students to register with the school, with far less document processing time, meaning the school can take in more students more efficiently and spend more time in other areas, such as course preparation.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| AALV-60 | As a Student, I want to register to the music school so that I can attend classes there. | 13 |
| AALV-11 | As a student I want to apply for lessons at the school so that I can learn an instrument. | 13 |
| AALV-14 | As a student I want to hire an instrument from the school so that I have an instrument for my lesson. | 13 |
| AALV-12 | As a student I want to request a specific teacher so that I can be taught by someone I’m more comfortable with. | 13 |
| AALV-61 | As a teacher, I want to accept a student so that I can teach them. | 13 |
| AALV-27 | As a manager, I want to create teacher accounts so that new teachers can have access to the system. | 8 |
| AALV-58 | As a Student, I want to see what lessons are being offered at the school so that I can decide what I want to learn. | 13 |
|  | Story Point Sub-Total: | 86 |

## 

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## Resource Management System

This feature should allow proper control over the inventory, such as adding, editing, removing and returning borrowed equipment. By implementing a resource management system, the school will have improved access to instrument details, hire information and instrument tracking, resulting in greater control of assets. It will also create a platform for inventory analysis, which will lead to more efficient spending on instruments and ultimately greater capacity for growth in more popular areas of music.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| AALV-37 | As a manager, I want to add new instruments so that they can be viewed and hired. | 13 |
| AALV-32 | As a manager, I want to view instrument hire requests so that I can see what instruments are needed by students. | 13 |
| AALV-35 | As a manager, I want to mark instruments as returned so that it can be tracked and rehired. | 8 |
| AALV-59 | As a Student, I want to see what equipment I have hired so that I know what I have. | 8 |
| AALV-15 | As a student I want to view my instrument history so that I can rehire an instrument I’m used to. | 8 |
| AALV-29 | As a manager, I want to deactivate old accounts so that fired/retired teachers no longer have access to sensitive content. | 13 |
| AALV-64 | As a manager, I want to be informed when a specific instrument stock runs out so that I can buy more. | 8 |
|  | Story Point Sub-Total: | 71 |

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# Release 2

Delivery date: 27th October 2016 Total Story Points: 199

This release focuses on the Should-have Stories of the website, which will hopefully add value to various aspects of the core website, and integrate more tasks that are currently carried out manually into the system. The biggest new feature for this release will be a timetable management system. Along with a lesson management system on top of that. Finally, teacher recruitment will also be added.

## Timetable and Account Management

This feature should allow teachers and students to modify their schedules so that their availabilities are known to the system, which affects the booking of lessons. With timetables and accounts being managed more conveniently and efficiently, the music school will experience a drastic decrease in loss due to missed, cancelled, clashing or swapped lessons. Such management will also provide the school with better information on when most students want to have their lessons. Additionally, administration time previously spent on scheduling will be saved.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| AALV-5 | As a teacher I want to view my timetable at the music school so that I know when I have to be there to teach a lesson. | 13 |
| AALV-43 | As a teacher I want to change my availabilities so that I only get assigned students when I’m able to teach them. | 13 |
| AALV-13 | As a student I want to view my schedule and lesson details so that I can prepare for my classes. | 13 |
| AALV-17 | As a student I want to change my schedule and lesson times so that I can have my lessons at a more convenient time. | 13 |
| AALV-49 | As a Teacher, I want to update my professional details so that students are aware of my abilities. | 8 |
| ALV-46 | As a teacher I want to contact admins so that I can discuss relevant issues such as illness, account problems and so on. | 8 |
|  | Story Point Sub-Total: | 68 |

## Student/Teacher Lesson Management

This feature should result in greater management of lessons by students, teachers and managers. Students and teachers will have a greater ability to get their ideal lessons and lesson times, and managers will be able to address transfer requests more easily. This added functionality will lead to higher lesson quality, increased student and teacher satisfaction, and ultimately better teaching results.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| AALV-55 | As a student, I want to change teachers so that I can have a teacher that satisfies my needs better. | 13 |
| AALV-53 | As a teacher, I want to request a student transfer so that I can stop teaching a student I'm no longer comfortable with. | 13 |
| AALV-54 | As a manager, I want to change the teacher assigned to a student so that I can fulfil student transfer requests. | 8 |
| AALV-51 | As a student, I want to cancel a lesson so that I do not have to attend. | 13 |
| AALV-56 | As a Teacher, I want to change a student's experience with an instrument so that their experience is properly documented. | 8 |
| AALV-10 | As a teacher I want to add notes to specific students so that I can teach them more effectively. | 13 |
|  | Story Point Sub-Total: | 68 |

## Teacher Recruitment

This feature should allow new teachers to apply for a position at the music school, as well as allow managers to respond and hire them. With a teacher recruitment system in place, the school will more easily be able to hire the best teacher for a particular position. It will also be more convenient and appealing for more teachers to apply to work at the school, leading to a stronger teaching staff and a better reputation for the school in the long term. Additionally, processing time of applicants will be reduced.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| AALV-24 | As a manager, I want to view and filter teacher applicants so that I can find a teacher to respond to that fulfils my requirements. | 13 |
| AALV-25 | As a manager, I want to respond to teacher applicants so that I can inquire and offer teaching positions to them. | 8 |
| AALV-1 | As a teacher applicant I want to apply for a position at the school so that I can be considered for a job. | 13 |
| AALV-48 | As a Teacher Applicant, I want to get information about teacher benefits, rate of pay and employment so that I can compare this job with others. | 8 |
| AALV-26 | As a manager, I want to delete applicants so that I will only see relevant applicants. | 8 |
| AALV-65 | As a manager, I want to conduct an advanced search that included deleted teacher applicants so that I have a larger list of applicants to choose from for a job. | 13 |
|  | Story Point Sub-Total: | 63 |

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# Release 3

Delivery date: 24th November 2016 Total Story Points: 177

This release will focus on adding value to already implemented aspects of the website, many of which are classed as could-haves. By the end of this release, these changes will add extra functionality to applying to the school for both students and teachers and student/parent and teacher communications. A streamlined process for payment is also part of this release.

## Waiting Lists

This feature will allow students to be placed onto waiting lists for specific lesson times and instrument hire. This implementation will result in a higher volume of student applicants and will mean cancellations or changes to schedules don’t necessarily result in lost time. It will also bring about a higher turnover of instruments, with the next student to hire the instrument waiting in a queue. This instrument waiting list will also provide an obvious indicator of which instruments need to be purchased, resulting in greater efficiency with regard to inventory purchase.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| AALV-68 | As a student, I want to apply to be on a waiting list for an instrument so that I can make sure I get an instrument to hire as soon as possible. | 13 |
| AALV-62 | As a student, I want to apply to be on a waiting list for a specific time slot so that I can get the lesson I want. | 13 |
|  | Story Point Sub-Total: | 26 |

## Application Tracking

This feature will allow teacher applicants track their application status after their application has been submitted. A better and smoother application experience will make the job more desirable to applicants, which would hopefully lead to more applicants and a higher quality staff at the school.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| AALV-2 | As a teacher applicant I want to track the status of my application so that I know whether or not I’m being considered for a job. | 13 |
|  | Story Point Sub-Total: | 13 |

## 

## Online Payment

This feature will allow parents of students pay their school fees online. Allowing parents to pay their fees online should help with customer retention as it is more convenient for parents to pay online than it is for them to take time out of their busy schedules to pay in cash. An online payment system will result in higher customer satisfaction, reduction in overdue fees, less processing and/or banking time spent by the school and also gives the school a more professional image.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| AALV-21 | As a parent I want to pay fees online so that I don't have to go through the hassle of bringing cash or sending cash with my child. | 13 |
|  | Story Point Sub-Total: | 13 |

## 

## Student Teacher Meetings

This feature will allow parents and students to schedule one-on-one meetings with their music school teacher. Having one-to-one meetings should help students to improve their musical skills on a regular basis as they will be able to get more tailored help outside of normal lesson times. Meetings will also help parents to keep up to date with their children's progress. A student-teacher meeting system would result in greater student and teacher satisfaction, higher quality lessons/learning and stronger student-teacher relationships.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| AALV-7 | As a teacher I want to view or manage my student/parent meetings so that I can organise them into my schedule. | 13 |
| AALV-16 | As a student I want to arrange a meeting with a teacher so that I could discuss my position and development so far. | 13 |
|  | Story Point Sub-Total: | 26 |

## Reporting and Contracts

This feature introduces reporting and contracts to the website, which assists the business to generate the required documentation between teachers and student and also allows for various business reports to be generated specific to the existing features. With this feature in place, the school will have a greater compliance with legislation and better information on students, lessons and the web app itself, allowing for more comprehensive operational analysis.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| AALV-31 | As a manager, I want to generate teacher-student and teacher-business contracts so that the business has the required legal work for employees and clients. | 13 |
| AALV-30 | As a manager, I want to generate business and IT reports so that I can analyse various aspects of the business and website. | 13 |
| AALV-4 | As a teacher I want to view information about my students so that I can prepare for my lessons with them. | 8 |
| AALV-8 | As a teacher I want to view lesson booking reports so that I am informed on what lesson times are in high demand. | 13 |
|  | Story Point Sub-Total: | 47 |

## Parental Controls

This feature should allow the parents of children under the age of 18 to have access to their children’s accounts, and do all the functional things they are normally able to do for them. With this in place, the school can nurture the popular demographic of children legally and efficiently, leading to a higher enrolment of students under 18.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| AALV-67 | As a parent, I want to have access to my child’s account, so that I can manage their account for them. | 13 |
| AALV-66 | As a parent, I want to add children to my account so that I will have access to them. | 13 |
|  | Story Point Sub-Total: | 26 |

## Stock Maintenance

This feature should allow the school to view instrument files and track instrument hire more effectively and efficiently. This will result in better use and distribution of instruments among students, and a reduction of overdue instruments and cancelled lessons due to instrument unavailability. Greater maintenance of stock should also lead to a higher turnover of instrument hire, and less time spent on instrument admin tasks, ultimately yielding higher profits for the school.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title | Story Points |
| AALV-33 | As a manager, I want to view and filter the instrument list so that I can find an instrument to edit. | 13 |
| AALV-36 | As a manager, I want to edit instrument details so that I can keep track of instruments more effectively. | 13 |
|  | Story Point Sub-Total: | 26 |

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# Delivery Schedule

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Mid-Semester Break | Week 11 | Week 12 |
| Sprint 1 | | Sprint 2 | | Sprint 3 | Sprint 3 | Sprint 4 |
| Release 1  September 22 | | | | Release 2  October 27 | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Week 14 | Week 15 | ... | ... | ... | ... | ... | ... |
| Sprint 5 | | Sprint 6 | | ... | | ... | |
| Release 3 | | | | Release 4,5,.. | | | |

## Estimated Velocity: 115 points/sprint

The estimated Velocity is calculated with the following assumptions:

Members in the group: 7 people

Time Contribution per week per member: 8-10 hours

This equates to 56 - 70 hours per week, or 112 - 140 hours per sprint.

That gives 224-280 hours per release.

Since not all members are developers however, we are limited in terms of developer hours.

To compensate for this, the sprints will be kept close to the lower limit (220-230 hours per release) in terms of development, otherwise estimates will be too ambitious for the team.

Sprint Plan

# Sprint 1

Total Story Points: 115 Total Hours: 123 hrs

## Current Velocity: 115 (See estimated velocity above)

## AALV-60: Student - Register

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create DB table(s) | 2 | 2 |
|  | Create Registration Page for students | 4 | 4 |
|  | Registration Form Validation | 2 | 3 |
|  | Create Service(s) for validation and registration | 4 | 4 |
|  | Test Student Registration | 2 | 2 |
|  | Story Points: 13 Total Hours: | 14 | 15 |

## AALV-27: Manager - Create Teacher Accounts

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create DB table(s) | 2 | 2 |
|  | Create detail entry forms | 3 | 7 |
|  | Form Validation | 2 | 2 |
|  | Create services for processing data | 2 | 4 |
|  | Test creation of Teacher Accounts | 2 | 2 |
|  | Story Points: 8 Total Hours: | 11 | 17 |

## AALV-11: Student - Apply for Lessons

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create DB table(s) | 2 | 2 |
|  | Create Lesson Application page | 4 | 3 |
|  | Create Service(s) for application processing | 3 | 3 |
|  | Create Confirmation Page & Send Notification | 1 | 1 |
|  | Test Student lesson applications | 2 | 1 |
|  | Story Points: 13 Total Hours: | 12 | 10 |

## AALV-61: Teacher - Accept Student

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create DB table(s) | 1 | 2 |
|  | Create acceptance form page for teachers | 3 | 1 |
|  | Create Service to process data | 4 | - |
|  | Create Confirmation Page & Send Notifications | 2 | - |
|  | Test accepting students | 2 | - |
|  | Story Points: 13 Total Hours: | 13 | 3 |

## AALV-58: Student - View Lesson Information

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create DB tables(s) | 2 | 2 |
|  | Write Content | 3 | 3 |
|  | Create and Style Page | 2 | - |
|  | Create Service(s) for processing data | 2 | - |
|  | Test student lesson view | 2 | - |
|  | Story Points: 8 Total Hours: | 11 | 5 |

## AALV-37: Manager - Add New Instruments

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create DB table(s) | 2 | 2 |
|  | Create instrument addition form page | 3 | 2 |
|  | Add Instrument form validation | 2 | 2 |
|  | Create service(s) for processing data | 3 | 2 |
|  | Test add new instrument function | 2 | - |
|  | Story Points: 13 Total Hours: | 12 | 8 |

## AALV-14: Student - Hire an Instrument

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create DB table(s) | 2 | 2 |
|  | Create Search Form Page | 4 | 3 |
|  | Create Service(s) for Processing Data | 4 | - |
|  | Create Confirmation Page & Send Notification | 2 | 1 |
|  | Testing of Instrument Hire | 2 | - |
|  | Story Points: 13 Total Hours: | 14 | 6 |

## AALV-35: Manager - Return Instruments

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create DB Table(s) | 1 | 2 |
|  | Create Instrument Return Page | 3 | 5 |
|  | Create Service(s) for processing/generating data | 4 | - |
|  | Test Return Page | 2 | - |
|  | Story Points: 8 Total Hours: | 10 | 7 |

## AALV-32: Manager - View Hire Requests

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create DB Table(s) | 1 | 2 |
|  | Create Hire Request View Page | 4 | - |
|  | Create Service(s) for processing/generating data | 5 | - |
|  | Test Hire Request View | 2 | - |
|  | Story Points: 13 Total Hours: | 12 | 2 |

## AALV-12: Student: Request Specific Teacher

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create DB table(s) | 2 | 2 |
|  | Create Request Teacher Form Page | 4 | - |
|  | Create Service(s) for Processing Data | 4 | - |
|  | Create Request Confirmation Page & Send Notification | 2 | - |
|  | Test request specific teacher | 2 | - |
|  | Story Points: 13 Total Hours: | 14 | 2 |

End of Sprint note:

Time had to be spent on non-user story tasks, so although a total of over 120 hours was put in by the group, it was not all on user stories.

# Sprint 2

Total Story Points: 95 story points Total Hours: 106 Hours

## Current Velocity: From Sprint one: 78 story points

## AALV-61: Teacher - Accept Student

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create file structure | 0.5 | 1 |
|  | Create Service to process data | 4 |  |
|  | Send Confirmation | 3 |  |
|  | Create Confirmation Page | 2 |  |
|  | Test accepting students | 2 |  |
|  | Story Points: 8 Total Hours: | 10.5 |  |

## AALV-58: Student - View Lesson Information

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create Folder Structure | 0.5 | 1 |
|  | Create and Style Page | 2 |  |
|  | Create Service(s) for processing data | 2 |  |
|  | Test student lesson view | 2 |  |
|  | Story Points: 5 Total Hours: | 6.5 |  |

## AALV-14: Student - Hire an Instrument

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create Service(s) for Processing Data | 4 |  |
|  | Testing of Instrument Hire | 2 |  |
|  | Story Points: 5 Total Hours: | 6 |  |

## AALV-35: Manager - Return Instruments

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create file structure | 0.5 | 0.5 |
|  | Create Service(s) for processing/generating data | 4 |  |
|  | Test Return Page | 2 |  |
|  | Story Points: 5 Total Hours: | 6 |  |

## AALV-32: Manager - View Hire Requests

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create file structure | 0.5 | 0.5 |
|  | Create Hire Request View Page | 4 |  |
|  | Create Service(s) for processing/generating data | 5 |  |
|  | Test Hire Request View | 2 |  |
|  | Story Points: 13 Total Hours: | 11 |  |

## ALV-12: Student: Request Specific Teacher

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create Request Teacher Form Page | 4 |  |
|  | Create Service(s) for Processing Data | 4 |  |
|  | Send Confirmation | 2 |  |
|  | Create Request Confirmation Page | 2 |  |
|  | Test request specific teacher | 2 |  |
|  | Story Points: 13 Total Hours: | 14 |  |

## AALV-119: Owner: Register Managers

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create Folder Structure | 0.5 | 0.5 |
|  | Create Manager Registration Form | 4 |  |
|  | Create AngularJS and Node.JS apps | 3 |  |
|  | Create Manager Login Form | 2 |  |
|  | Link existing loginService to new Login Form | 2 |  |
|  | Test Manager registration and Login | 2 |  |
|  | Story Points: 13 Total Hours: | 13.5 |  |

## AALV-59: Student: See Borrowed Instrument Details

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create Folder Structure | 0.5 | 0.5 |
|  | Create Instrument Information Page | 4 |  |
|  | Create AngularJS and Node.JS apps | 3 |  |
|  | Test Borrowed Instruments page | 2 |  |
|  | Story Points: 8 Total Hours: | 9.5 |  |

## AALV-15: Student: View Instrument Hire History

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create Folder Structure | 0.5 | 0.5 |
|  | Create Instrument History Page | 4 |  |
|  | Create AngularJS and Node.JS apps | 3 |  |
|  | Test Instruments History page | 2 |  |
|  | Story Points: 8 Total Hours: | 9.5 |  |

## AALV-29: Manager: Deactivate Teacher Accounts

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
|  | Create Folder Structure | 0.5 | 0.5 |
|  | Create Teacher Deactivation Page | 4 |  |
|  | Create AngularJS and Node.JS apps | 4 |  |
|  | Test Instruments History page | 2 |  |
|  | Story Points: 8 Total Hours: | 10.5 |  |