

Release and Sprint Plans

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Release Plan

Release 1

Delivery date: 22nd September 2016

Total Story Points: 137

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-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:		73

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
Story Point Sub-Total:		64

Release 2

Delivery date: 27th October 2016

Total Story Points: 105

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-13	As a student I want to view my schedule and lesson details so that I can prepare for my classes.	13
AALV-49	As a Teacher, I want to update my details so that students are aware of my abilities.	8
Story Point Sub-Total:		34

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-51	As a student, I want to cancel a lesson so that I do not have to attend.	8
AALV-56	As a Student, I want to change my experience with an instrument so that my experience is properly documented.	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
	As a student I want to request a teacher with specific language skills so that I can be taught by someone who can fulfil my needs.	13
Story Point Sub-Total:		21

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
Story Point Sub-Total:		50

Release 3

Delivery date: 24th November 2016

Total Story Points: 52

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.

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. View all lessons and be able to filter by teacher/student	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
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

Delivery Schedule

Week 6	Week 7	Week 8	Week 9	Week 10	Mid-Sem ester 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	4
	Send Confirmation	3	
	Create Confirmation Page	2	2
	Test accepting students	2	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	2
	Create Service(s) for processing data	2	2
	Test student lesson view	2	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	3
	Testing of Instrument Hire	2	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	3
	Test Return Page	2	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	6
	Create Service(s) for processing/generating data	5	3
	Test Hire Request View	2	2
	Story Points: 13	Total Hours:	11

AALV-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	3
	Create AngularJS and Node.JS apps	3	2
	Create Manager Login Form	2	2
	Link existing loginService to new Login Form	2	2
	Test Manager registration and Login	2	2
	Story Points: 13	Total Hours: 13.5	11.5

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	3
	Create AngularJS and Node.JS apps	3	2
	Test Borrowed Instruments page	2	2
	Story Points: 8	Total Hours: 9.5	7.5

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	3
	Create AngularJS and Node.JS apps	3	2
	Test Instruments History page	2	2
	Story Points: 8	Total Hours: 9.5	7.5

AALV-29: Manager: Deactivate Teacher Accounts

Task ID	Task Description	Estimate	Taken
	Create Folder Structure	0.5	0.5
	Create Teacher Deactivation Page	4	3
	Create AngularJS and Node.JS apps	4	4
	Test Instruments History page	2	2
	Story Points: 8	Total Hours: 10.5	9.5

Sprint 3

Total Story Points: 89 story points

Total Hours: 62.5 Hours

Current Velocity: From Sprint two: 95 story points

AALV-12: Student: Request Specific Teacher

Task ID	Task Description	Estimate	Taken
	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: 10	

AALV-5: Teacher - View Timetable

Task ID	Task Description	Estimate	Taken
	Create Folder Structure	0.5	
	Create and Style Timetable Page	2	
	Create AngularJS and Node.js apps	4	
	Test timetable view	2	
	Story Points: 13	Total Hours: 8.5	

AALV-13: Student - View Schedule

Task ID	Task Description	Estimate	Taken
	Create Folder Structure	0.5	
	Create and Style Availabilities Page	2	
	Create AngularJS and Node.js apps	4	
	Test schedule view	2	
	Story Points: 13	Total Hours: 8.5	

AALV-51: Student - Cancel Lesson

Task ID	Task Description	Estimate	Taken
	Create and Style Lesson Cancelling Page	2	
	Create AngularJS and Node.js apps	2	
	Test lesson cancelling	2	
	Story Points: 8	Total Hours: 6	

AALV-48: Teacher Applicant - Get Information

Task ID	Task Description	Estimate	Taken
	Create Folder Structure	0.5	
	Create and Style Information Page	2	
	Create AngularJS and Node.js apps	2	
	Test information page	2	

Story Points: 8	Total Hours: 6.5
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AALV-1: Teacher Applicant - Apply

Task ID	Task Description	Estimate	Taken
	Create Folder Structure	0.5	
	Create and Style Information Page	2	
	Create AngularJS and Node.js apps	4	
	Test application	2	
	Story Points: 13	Total Hours: 8.5	

AALV-24: Manager - View and Filter Teacher Applicants

Task ID	Task Description	Estimate	Taken
	Create Folder Structure	0.5	
	Create and Style View Page	2	
	Create AngularJS and Node.js apps	4	
	Test searching/filtering	2	
	Story Points: 13	Total Hours: 8.5	

AALV-24: Manager - Respond to Teacher Applicants

Task ID	Task Description	Estimate	Taken
	Create and Style Response Page	2	
	Create AngularJS and Node.js apps	2	
	Test responding	2	
	Story Points: 8	Total Hours: 6	

NEXT SPRINT

AALV-49: Teacher - Update Details

Task ID	Task Description	Estimate	Taken
	Create Folder Structure	0.5	
	Create and Style Availabilities Page	2	
	Create AngularJS and Node.js apps	2	
	Test schedule changing	2	
	Story Points: 8	Total Hours: 6.5	