

IFB299 - IT Project Design and Development Submission 1

Release, Sprint Plans and User Stories

Group 14 - Group 14

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Release and Sprint Plans

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Release Plan

Release 1

Delivery date: Week 13

Total Story Points:15

Release 1 aims to provide the necessary features for a functional system. This includes access to the webpage and its core functionalities. Users will be able to create an account, administrators will be able assign roles to users. Students will be able to view the availability of lessons and book them accordingly.

User Management

Functions regarding the users of the web page for user management.

Story ID	Story Title	Story Points
S03	Create Account	2
S04	Log In	1
S05	Log Out	1
S06	Assign Class	1
S35	Assign Admins	1
S07	Update Account Details	1
S29	Manage Student Enrollments Edit User Details as Admin	1
	Story Point Sub-Total:	8

Functionality

Main application functionality of the web page, allows students to view and book their lessons.

Story ID	Story Title	Story Points
S01	Homepage	1
S02	Navigation	1
S09	Lesson Booking	3
S34	Produce Reports	
S10	View Personal Calendar	1
S13	Online Payments	3
S14	Owner's Share Income Management	3
S30	View and Edit Contracts	3
	Story Point Sub-Total:	15

Sprint Plan

Sprint 1

Total Story Points: 15

Total Hours Taken: 17.5

Current Velocity: 15 Story Points = 15 Hours

S01: Create Account

Task ID	Task Description	Estimate	Taken
T01	Create web-page for account creation to fetch for user details	0.25	1.5
T02	Create fields that fetch information: Name, DOB, Teacher/Student, Phone No, FB ID.	1.0	0.5
T03	Apply CAPTCHA to prevent spam accounts.	0.5	0.5
T04	Verify Story is completed (Acceptance test)	0.25	0.5
	Story Points: 2	Total Hours: 2	3

S03: Log-In

Task ID	Task Description	Estimate	Taken
T05	Create login webpage / window	0.25	1.6
T06	Apply CAPTCHA to prevent spam accounts.	0.5	0.2
T07	Verify Story is completed (Acceptance test)	0.25	0.2
	Story Points: 1	Total Hours: 1	2

S04: Log-Out

Task ID	Task Description	Estimate	Taken
T08	Create button that logs users out.	0.75	0.25
T09	Verify Story is completed (Acceptance test)	0.25	0.25
	Story Points: 1	Total Hours: 1	0.5

S06: Assign Class

Task ID	Task Description	Estimate	Taken
T10	Code admin user privileges to change the class (student or teacher) of other users	0.75	1.75
T11	Verify Story is completed (Acceptance test)	0.25	0.25
	Story Points: 1	Total Hours: 1	2

S35: Assign Admins

Task ID	Task Description	Estimate	Taken
T12	Code owner privileges to assign other users as administrators.	0.75	0.25
T13	Verify Story is completed (Acceptance test)	0.25	0.25
	Story Points: 1	Total Hours: 1	0.50

S01: Homepage

Task ID	Task Description	Estimate	Taken
T14	Create section for Students, Teachers and Music School Information Landing page for guests	0.25	1.0
T15	Code to retrieve selected information from database Add necessary texts	0.25	0.25
T16	Edit page to show relevant data on sections	0.25	-
T17	Verify Story is completed (Acceptance test)	0.25	0.25
	Story Points: 1 Total Hours:	1	1.5

S02: Navigation

Task ID	Task Description	Estimate	Taken
T18	Create a section for lesson booking Create shared layout.	0.25	1
T19	Navbar & Footer	0.25	0.5
T20	Add menu to all pages	0.1	0.25
T21	Verify Story is completed (Acceptance test)	0.25	0.25
	Story Points: 1 Total Hours:	1	2

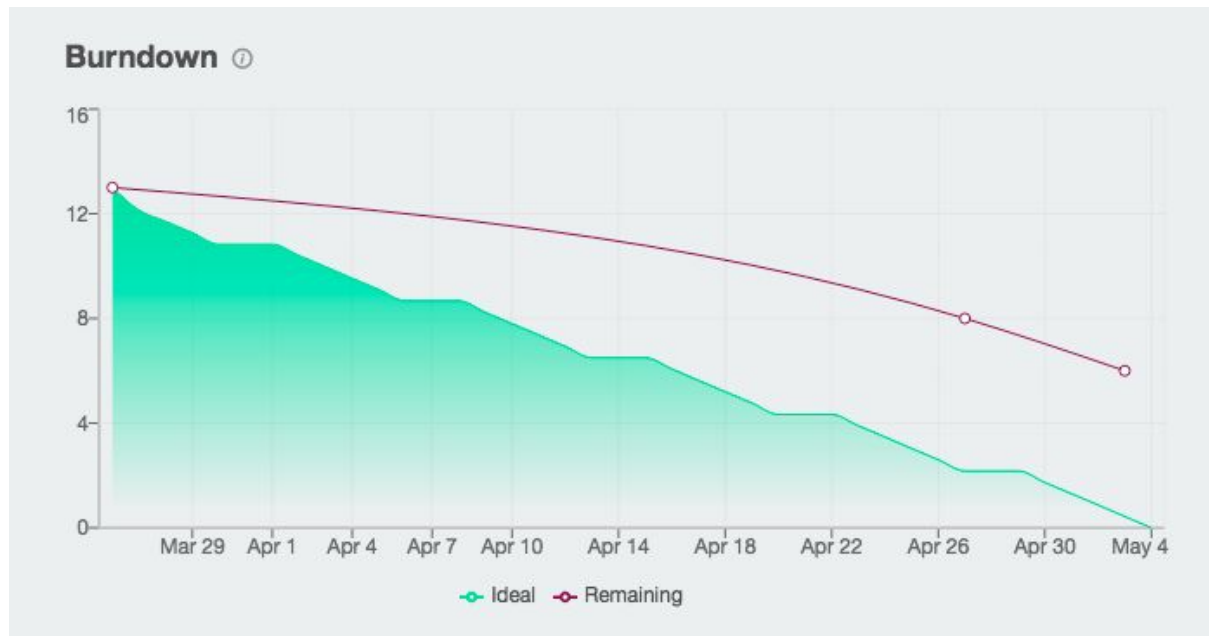
S03: Lesson Booking - Incomplete

Task ID	Task Description	Estimate	Taken
T22	Create section for viewing calendar	0.25	3
T23	Code to view calendar which draws information from database	1.0	N/A
T24	Create a section for lesson booking and allow users to book lesson	1.0	N/A
T25	Write code to ensure booking is successful and are added to database	0.5	N/A
T26	Verify Story is completed (Acceptance test)	0.25	N/A
	Story Points: 3 Total Hours:	3	3

S34: Produce Reports - Incomplete

Task ID	Task Description	Estimate	Taken
T27	Code Admin Portal	1.5	3
T28	Link to database, fetching common data for quick reports	1.5	N/A
T29	Enable filters for admins to create customised reports	0.75	N/A
T30	Verify Story is completed (Acceptance test)	0.25	N/A
	Story Points: 4 Total Hours:	4	3

Sprint 1 Burndown Chart



The team managed to accomplish most prioritised tasks, however overlooked the difficulty of some. These will be moved to sprint 2 and be given the highest priority.

Sprint 2

Sprint 2 aims to finish Stories incomplete from Sprint 1. The group has decided to change the priority of S34 Produce Reports as a result of task dependency where other stories must be complete in order to produce a report. Sprint 2 also aims to implement “Should have” capabilities. Story points have also been amended to reflect a more realistic time estimation..

Total Story Points: 15

Total Hours Taken: 20.25

Current Velocity: Story Points = 15

S09: Lesson Booking

Task ID	Task Description	Estimate	Taken
T23	Code to view calendar which draws information from database	1.0	3
T24	Create a section for lesson booking and allow users to book lesson	1.0	2
T25	Write code to ensure booking is successful and are added to database	0.5	5
T26	Verify Story is completed (Acceptance test)	0.25	0.25
	Story Points: 2 Revised to 3	Total Hours:	2.75
			10.25

S07: Update Account Details

Task ID	Task Description	Estimate	Taken
T31	Create landing page to view user details	1.25	1.5
T32	Enter forms & fetch data from database	0.25	0.5
T33	Enable option to edit fields.	0.25	0.25

T34	Verify Story is completed (Acceptance test)	0.25	0.25
	Story Points: 3 Revised to 2	Total Hours: 2	2.5

S10: View Personal Calendar

Task ID	Task Description	Estimate	Taken
T35	On prospective dashboard of the user (Teacher or Student)	0.25	2
T36	Display a calendar for their <u>unique</u> lessons	1	4
T37	Verify Story is completed (Acceptance test)	0.25	0.25
	Story Points: 1	Total Hours: 1.5	6.25

~~S13: Online payments~~

Task ID	Task Description	Estimate	Taken
T38	Create UI for payments on student portal	1	n/a
T39	Attach back-end data to external payment options	1	n/a
T40	Implement payment security	0.75	n/a
T41	Verify Story is completed (Acceptance test)	0.25	n/a
	Story Points: 3	Total Hours: 3	n/a

S14: ~~Owner's Share~~ Renamed to **Income Management**

Task ID	Task Description	Estimate	Taken
	<i>Requires Online Payments before implementation</i>		
T42	Create Income management page on admin portal & connect with database	1	n/a
T43	Implement payment API - Automatically transferring 60% of payment to the teacher, and the remainder 40% to Mika	2	n/a
T44	Verify Story is completed (Acceptance test)	0.25	n/a
	Story Points: + Revised to 3	Total Hours: 3.25	n/a

S29: ~~Manage Student Enrolments~~ Renamed to **Edit User Details as Admin**

Task ID	Task Description	Estimate	Taken
T45	Landing page for admin to view all users	0.25	0.5
T46	Enable admin permissions to edit all user details	0.25	0.25
T47	Verify Story is completed (Acceptance test)	0.25	0.25
	Story Points: 2 1	Total Hours: 0.75	1

~~S30: View and Edit Contracts~~ - Removed from Plan.

Task ID	Task Description	Estimate	Taken
T48	Create landing page on admin portal to view all contracts through user list.	0.75	0.25
T49	Connect to Database and generate contract between users	1.75	n/a
T50	Enable admin to edit	0.25	n/a
T51	Verify Story is completed (Acceptance test)	0.25	n/a
	Story Points: 3	Total Hours: 3	0.25

Burndown Chart for Sprint 2



Sprint 2 Summary & Justification

At the beginning of Sprint 2, the development team made a majority decision to migrate the solution, switching the platform to Angular. This allowed for an implementation of a rich interactive user interface. The team adjusted story points from the original release plan to reflect a more realistic time-frame. Nevertheless, the difficulty of a few tasks were still over-estimated leaving the team to fall behind schedule.

Agile & Scrum Implementation

Halfway throughout the sprint, the development team re-evaluated the priority of the tasks. This resulted in the removal of 2 stories; S13 Online Payments and S14 Income Management. Instead the team decided to focus on implementing a high quality standard of work. As a result of task dependency, the aforementioned S34 Produce Reports was also removed from sprint 2.

Removal of S30 View and Edit Contract

S30 was also removed throughout Sprint 2. During a discussion between the development team and the client, it was established implementing a flexible lesson booking system, instead of a fixed contract would be more beneficial towards the music students. The booking system allows students to book lessons with their preferred teacher at an available time of their choosing. The client team agreed this feature would be favoured amongst the music students

rather than agreeing to terms and conditions for music lessons stipulated. Consequently this method amended S30.