

# **IFB299 - IT Project Design and Development**

## **Submission 1**

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### **Release, Sprint Plans and User Stories**

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#### **Group 14 - Group 14**

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Version: 1  
Date: 21/03/2018

# **Release and Sprint Plans**

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# Release Plan

## Release 1

Delivery date: Week 9

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
	Story Point Sub-Total:	6

### 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	4
	Story Point Sub-Total:	9

# Sprint Plan

## Sprint 1

Total Story Points: 15

Total Hours: 15

Current Velocity: 15 Story Points = 15 Hours

### S01: Create Account

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

### S03: Log-In

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

### S04: Log-Out

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

### S06: Assign Class

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

### S35: Assign Admins

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

## S01: Homepage

Task ID	Task Description	Estimate	Taken
<b>T14</b>	Create section for Students, Teachers and Music School Information	0.25	
<b>T15</b>	Code to retrieve selected information from database	0.25	
<b>T16</b>	Edit page to show relevant data on sections	0.25	
<b>T17</b>	Verify Story is completed (Acceptance test)	0.25	
	Story Points: 1	Total Hours:	1

## S02: Navigation

Task ID	Task Description	Estimate	Taken
<b>T18</b>	Create a section for lesson booking	0.25	
<b>T19</b>	Create Main Menu	0.25	
<b>T20</b>	Add menu to all pages using a template	0.25	
<b>T21</b>	Verify Story is completed (Acceptance test)	0.25	
	Story Points: 1	Total Hours:	1

## S03: Lesson Booking

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

## S34: Produce Reports

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

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# System Roles

User:

Student:

Enrolled Student – A student enrolled to study at the music school

Potential Student – A student looking to study at the music school

Teacher:

Contracted Teacher - A teacher under contract by Mika to teach at the music school

Potential Teacher - A teacher looking to teach at the music school

Staff:

Administrator – User appointed by Mika to maintain the database

Owner – Mika

# Epic - Navigation

S01

# Homepage

Must

1

As a *user*, I want to **access a homepage** so that I can **access the rest of the website**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

## Acceptance Criteria

- Upon typing a url into the web browser, the homepage is displayed.
- The homepage contains a welcome message with banner
- Links are displayed and upon activation, navigate the user to the intended page.

## Notes

-

As a *user*, I want to **navigate to different pages** so that I can **access all features**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- A clear and succinct navigable main menu with drop down sub menus will be on each page, which provides quick access to all sections of the website.
- Website layout follows logical progression.
- Use of universally understood icons and symbols.
- Site-map will be available

#### Notes

-

# Epic - User Accounts

S03

# Create Account

Must

2

As a User, I want to be able to create an account so that I can have a dynamic user experience and store my personal data in order to uniquely identify myself from other users on the website.

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

## Acceptance Criteria

- A 'create account' link is available for users who are not logged into an account on all pages.
- The user is required to enter: First & Last Name, DoB, Gender, Birthday, Mobile Phone, Facebook ID if applicable.
- Validation checks for data entered in to the account creation page
- Every user is registered as a basic account and a teacher is given privileges by an administrator if needed.
- Terms & Conditions of the service must be accepted by the user before their account is created.

## Notes

- Each user can only create one account.
- Accounts will need to be accepted by Administrators to prevent spam or confirmed via email

S04

# Log in

Must

1

As a *user*, I want to **log in**, so that I **can use my account**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

## Acceptance Criteria

- Log in button displayed in top right corner of all pages when user not logged in.
- Login page or Login Dialog with the ability to enter username and password
- User is required to enter log-in details, or to create an account if they do not have one.
- When the user is logged in, services will be dynamic to the user.

## Notes

- CAPTCHA will be implemented on log-ins to prevent bot and spam accounts.
-

S05

## Log out

Must

1

As a *user*, I want to **log out**, so that **no one else can use my account**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

### Acceptance Criteria

- Logout button displayed instead of the login button when user has logged in.
- When the logout button is pressed the user session is terminated
- The page is reloaded and all user specific content disappears
- The login button appears in place of the logout button

### Notes

-

S06

# Assign Class

Must

1

As an *administrator*, I want to **assign student and teacher roles** to new accounts so that **they can use their respective features**.

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

## Acceptance Criteria

- Via the admin portal, administrators can assign the Class of users to be staff or teachers of new accounts that have been created.
- Different Classes have different permissions on the website.

## Notes

-

S07

## Update Account details

Should

1

As a *user*, I want to **update my account details** so that my personal information is up to date.

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

### Acceptance Criteria

- The account details page is opened by clicking on the link in the top right corner
- Upon clicking the “edit” button, fields on the page change to be editable and is replaced with “save” and “cancel” buttons
- Users can enter new values into the relevant fields
- Users have to enter their old password and type their new password twice if they want to change password
- Hitting the “save” button saves the new information or displays error messages if the data is invalid.
- Hitting the “cancel” button reverts the changes back to their original values

### Notes

-

S08

# Account Recovery

Could

2

As a *user*, I want to be able to **send a recovery email**, so that **I can regain access to my account if I lose my password**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

## Acceptance Criteria

- On the login screen, a “forgot password” link is displayed.
- Upon clicking the “forgot password” link, a textbox is displayed for the user to enter their “email address”
- If the email address is found on the database, a temporary password is generated and emailed to the user’s email
- If the email address is not found, an error message is displayed

## Notes

-

# Epic – Lessons

S09

# Lesson Booking

Must

3

As a *student*, I want to **be able to view available lessons in a calendar format** so that I can **book a lesson that I can attend at a convenient time.**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

## Acceptance Criteria

- A Book Lessons button will be on the top of the webpage.
- Clicking on the icon will display the weekly availability of teachers will be displayed on calendar.
- Available time slots will be clearly indicated via colours (green = available, red = booked.)

## Notes

- <https://mvc.daypilot.org/calendar-and-sql-server-tutorial-c-and-vb-net/> - calender built into .net using SQL

As a *student*, I want to **view my classes in a calendar** so that I have an **intuitive overview of my schedule**.

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- A “my calendar” button is displayed at the top of the webpage.
- When clicked, a weekly calendar of the student’s booked lessons is displayed, showing when their classes are throughout that week.
- Users will have the option to export their calendar.

#### Notes

-

As a *student*, I want to **filter the calendar of available lessons**, so that I can narrow down lessons that suit me

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- On the Available Lesson Calendar, a drop down “filter” field button enables users to filter the calendar based on criteria including: instrument types, languages spoken, gender preference and grades able to be taught (beginner to expert) of teachers.

#### Notes

-

As a *student*, I want to **receive notifications of upcoming classes** so that I **do not miss nor erroneously show up to class**.

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- Students have the option of enabling notifications via SMS or Email with in their userpage.
- Popup notifications of classes will be displayed upon logging into the website.
- Notifications will be displayed for upcoming classes, new lesson availabilities and cancellation of classes, students can select which notifications they wish to receive.

#### Notes

-

# Epic – Payments

As a *student*, I want to be able to **pay for my lessons online**, so that **I don't have to make payments in person saving me time.**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- A payment icon will be available for students on the top of the webpage, clicking the button directs the student to the payment page.
- Payments can be made in methods such as Eftpos, BPay or Paypal and can be made weekly, monthly, annually (recurring payments).

#### Notes

-

As the owner, I want to **transfer 40% of lesson cost to my account so that I can maintain the music centre**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- Everytime a student makes a payment, 60% of the amount is transferred to the teacher's account
- 40% of the cost is transferred to Mika's account

#### Notes

-

# Epic – Correspondence

As a *potential teacher*, I want to **contact the owner via the website** so that I can **request to teach at the music school**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- A user who is not logged into the website can access basic functions including a “Contact Us” page.
- Users are to fill in fields to contact Mika. Fields including Name\*, Subject, Email Address\*, Phone Number\* Message\* and attachments are available to be filled.

#### Notes

- items with \* are compulsory.

As the owner, I want to **reply to potential teachers** so that I can **arrange an interview if i choose to hire them.**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- Mika receives an email forwarded by the website. The email contains the potential teacher's details provided from the fields from the contact form.
- When Mika replies to this email, it is forwarded to the potential teacher

#### Notes

-

As the owner, I want to **view a list of potential teachers** so that I can **hire them in the future**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- When a teacher uses the contact form, their details are saved to the database
- When Mika accesses the admin portal, a link is displayed to “potential teachers”
- Clicking the link opens a page where, correspondance with mika is displayed

#### Notes

-

# Epic – Teacher Management

As a *staff member*, I want to **view and edit a list of teachers** so that I can **keep track of contracted teachers**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- List of teachers are saved in the database
- A staff member can view a list of teachers via the admin portal
- A staff member can add a teacher via the admin portal
- A staff member can edit a teacher's details via the admin portal

•

#### Notes

•

As the *owner*, I want to **view feedback about teachers** so that I **can decide whether to extend or terminate their contracts**.

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- Via the Administrator portal, a “view feedback” option is available.
- Clicking on this function brings the owner to a web page which displays all feedback of the teachers left by students.

#### Notes

-

As a *student*, I want to **leave feedback about teachers** so that I **can share my learning experience with others**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- Students have the ability to view past classes via the calendar function, and are able to leave written feedback regarding the quality of their lessons by clicking the 'leave feedback' prompt.
- A student can enter feedback and rate a teacher for their communication skill
- Student's feedback is saved to the database and is viewable only by Mika.

#### Notes

-

# Epic – Preferences

As a *student*, I want to **indicate preferences to day and time** so that I am **shown classes that suit me**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- A student's profile contains a section dedicated to preferences
- A student can add and delete preferred days and times to this section
- When a student searches for a lesson, preferred days are shown first

#### Notes

-

As a *student*, I want to **indicate preferences for teachers** so that I **receive tutoring that suits me**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- A student can view a teacher's profile
- Upon viewing the profile, clicking on a "Add favourite" button, adds the teacher to a list of preferred teacher's on the students profile
- When a student searches for a lessons, preferred teachers are displayed first

#### Notes

-

As a teacher, I want to **record the languages I speak** so that I can **cater to students who speak different languages**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- The Teacher's profile lists languages that they speak
- A teacher can press an "add" button to add languages to the list
- A delete icon next to each language allows the teacher to delete each language from the list

#### Notes

-

As a teacher, I want to **record a list of ethnic instruments I play** so that I can **answer to requests for specific instruments**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- On the Teacher's userpage, teachers have a field for them to add what instruments they teach which can be viewed by all other users.

#### Notes

-

As a student, I want to **set preferred languages** so that I am **shown teachers who speak the same language**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- A student's profile shows a list of languages preferred by the student
- The student can add and delete languages from the list
- When a student searches for a lesson, teachers who speak the same language are shown first

#### Notes

-

As the owner, I want to **restrict the age of students to 10** so that **teachers do not face difficulty in teaching**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- When students or parents creates account under register page, they are required to input the student's date of birth.
- If age is less than 10, a pop up will show an error message

#### Notes

-

# Epic – Instrument Hire

As a *student*, I want to **view a list of instruments and hire one** so that I can **use it for learning**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- A student can view a list of instruments that are available for hire
- They are able to select an instrument and the period for which they want to hire it
- Students are given the option to hire it for one of their upcoming class or a few days
- Payment for the hire can be made on the website

#### Notes

-

As a *staff member*, I want to **view and enter details of instruments** so that I can **list them for hire**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- Staff members can view currently listed instruments for hire via the admin portal
- A staff member is able to edit details of an instrument
- A staff member is able to upload pictures of the instrument
- They are able to enable and disable the listing

#### Notes

-

# Epic – Student Management

As a *staff member*, I want to **view a list of students and edit their details** so that **I have an overview of enrolled students and can manage them if needed.**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- A staff member is able to view a list of enrolled and potential students
- A staff member is able to update personal information of these students
- A staff member is able to cancel enrolments of inactive students

#### Notes

-

As a staff member, I want to **view and edit contracts between teachers and students** so that I can **keep track of lessons conducted at my music school**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- The admin portal contains a link to “Contracts”
- The contracts page lists the contracts between teachers and students including the following information start date, end date, lesson type, lesson duration and lesson cost
- Upon clicking a contract, staff members can update end date, lesson type, duration and cost. Start date is only updateable if it's in the future

#### Notes

-

As the owner, I want to **restrict new students to one lesson per week** so that **they are not overwhelmed by too many lessons**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- When a user creates an account he is marked as a new student
- When a user account is older than 3 months, it is marked as old
- A new student can successfully register for one lesson per week
- Trying to register for a second lesson fails and an error message is displayed

#### Notes

-

As the owner, I want to **allow up to 3 lessons per week for old students** so that **they can learn faster**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- When a user is marked 'old' students, the old students have the ability to booked up to 3 lessons
- Students will receive an error message if they book more than 3 lessons

#### Notes

-

As a *contracted teacher*, I want to **view parental information of children attending my class** so that I can contact them in case of emergency

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- Upon clicking on an upcoming class, information about the student is displayed.
- If the student is under 18, it will contain the name, address, phone and email address of their nominated parent

#### Notes

-

# Epic - Reports

As a *staff member*, I want to **produce reports** so that I can **view specific information of stored data**.

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- Via the admin portal, Staff members can produce quick reports based on the most commonly required reports such as monthly income and usage
- They can generate custom reports based on custom queries that they create
- They are able to print generated reports

#### Notes

-

# Epic - Administration

As the owner, I want to **assign staff members** so that they can maintain the school database

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- Upon viewing a list of users when logged in as Mika, a “make admin” link is displayed next to each user
- Upon clicking the link the user gets administrator privileges
- The user can visit the admin portal next time he logs in by appending “/admin” to the url

#### Notes

-

# Epic - Misc.

As a developer, I want to ensure the security of data, so that important information can be kept confidential

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- Hash password during transport and storage
- Establish SSL security
- protect from SQL Injection
- Ensure that user data is encrypted when stored within the database

#### Notes

-

As a *student*, I want to **know my most suitable teacher** so that **my needs are met**.

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- Students undertake a quiz which determines their personality type, how they learn, what instrument they are learning, lesson availabilities and is matched with their most compatible teacher.

#### Notes

-

As a *User*, I want to **be able to view the website in other languages**, so that **I can view the website in my prefered language.**

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- A widget on the top right hand corner which enables a feature to translate the whole website into the user's desired language will be available.

#### Notes

-

As a *User*, I want to **have a 24/7 support on the website**, so that **I can get faster responses on my inquiries**.

I	✓
N	✓
V	✓
E	✓
S	✓
T	✓

#### Acceptance Criteria

- A chat function will be available 24/7 on the bottom right corner that allows users of the webpage to communicate directly with help staff.
- Users directly message staff via this function

#### Notes

-