

**Requirement Specification Document**

Music Learning Web Portal

Version 1.0

**CONFIDENTIAL**

This document outlines the general scope of your project based on our understanding of the requirements provided and discussions to date.



**DISCLAIMER**

This document is submitted with the explicit understanding that the contents are confidential and would not be divulged to any third party without prior written consent from Arka Softwares Private Limited

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# Purpose of Document

This document outlines the general scope of your project based on the requirements provided and discussions to date. The main objective at this stage is to ensure that all parties agree upon the general scope, budget and schedule of the project before commencing work on subsequent stages.

Clients are urged to ensure that all the details contained within this document are clear and fully meet their requirements before further work commences. Timescales mention only cover the scope listed, if this changes, costs, and timings will change accordingly.

Once you are satisfied with our proposal we will progress to the next stages. This may include further detail requirements and functionality or it may go straight into the design. This will depend on the nature of the project.

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# Objective of the Document

The objective of this document is to provide a detailed modular description of the project “Music Learning Portal”. The document covers all the functionalities and features required in the web website application and details of required resources. Hence, it will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli. This document is intended for both the stakeholders and the developers of the system. The document consists of the following things:

* Project Scope
* Project Description/Overview
* Project Users
* Entity Diagrams
* Functional Specification
* Technical Specification
* Details of Project Deliverables

# Project Scope

The project scope includes the following components:

* Music Learning Web Portal
* Backend
* Analysis and Requirement: Based on the initial proposal document this SRS document is prepared and it will work as a benchmark for the development work.
* UI Design: Upon finalization of the SRS document, we will provide the homepage mockups/screens and a client can share feedback and upon finalization of theme, we will proceed with the Inner pages design like Service Booking page, my jobs.
* Coding: We will start the development of the website/app once we receive a final confirmation on all of the design pages. We will create project sprints on Trello according to milestones which will be shared with the client.
* Testing: There will be testing done upon completion of every sprint and there will be unit testing upon the completion of all the modules.
* Deployment: Once all modules and testing are completed, we will move the code on client-server.
* Training: The website backend admin guide document will be shared with the client.
* Central Repository Of Database
* Language: Website will be available in 2 languages i.e. English and Mandarin
* Web Services to set up communication between Server & Website

# Project Overview:

The Web portal is for music aspirants, the portal helps the students across the globe who are passionate about their instruments paying skills and wants to enhance their skills with the help of professional Music Instrument payers across the world. The portal provides the platforms for both students and teachers can come together and assist each other in much prominent way.

With the help of this web portal, a student shall be able to search the teachers, validate them on their various parameters and select anyone as per their interest, asking for their availability, book a lesson with them, send them their notes and video of playing the instruments, the teachers, on the other hand, validates the students on various parameters and upload a video rectifying the student skills, they will also have a chat feature from where they can communicate with each other promptly.

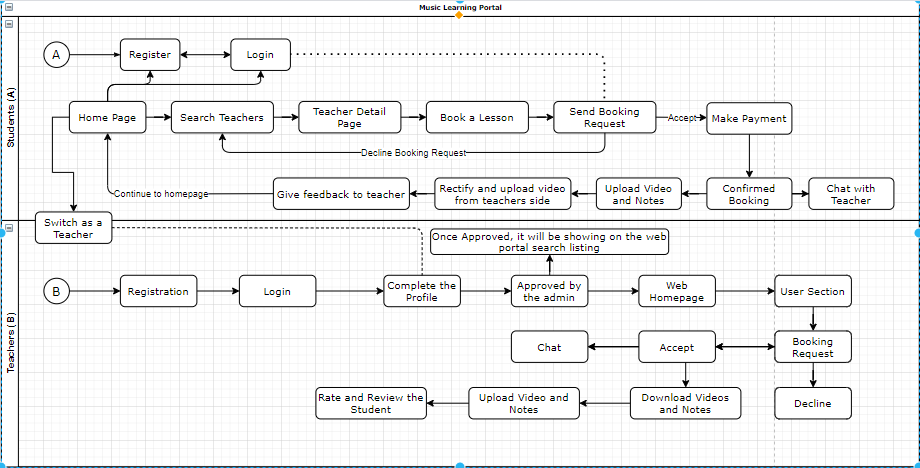
Furthermore, they both shall be able to review each other based on the experience they have along with their skills, teaching and learning skills.

# Types of Users

There will be 3 types of user on this web application:

1. Students (General Users)
2. Teachers (Providers)
3. Super Administrator

# Entity Diagram for Both (Student and Teachers)



To check the complete access of the entity flow: <https://drive.google.com/file/d/1P4JnNWk5Tjs03zNCsqMSdtjrhfE3j7Ac/view?usp=sharing>

# Functional Requirements of the Portal

**Student’s Flow**

Registration/Login

For the Register, the user will have to fill in their details like:

1. Student
2. Students name
3. Birthday
4. Phone number
5. Email
6. Password (can be visible)
7. Confirm Password

**Note:** There will be a checkbox that will be checked by the user to agree to the terms and condition for payment and terms and condition of the platform

User can register on the application using **Facebook**

After filling all the information for registration an email will go to user email id to confirm authentication of the user and clicking on that link user will have to do login and further process

To log in to the system, the user will have to provide:

* + Email/Username
  + Password

User can log in using **Facebook**

Forgot Password:

User can retrieve his password using “Forgot password”. The application will ask the user to provide their registered email id and a link will be sent to them. Clicking on the link will open a page asking for a new password and with this, the password will be changed.

Homepage/landing page:

1. Select Language, allow cookies
2. Header part:

* Logo
* Navigation/Menu
* Login (as a Student/Teacher)
* Sign Up (as a Student/Teacher)

1. Search Bar, it shall be done based on (Instruments, Price Range, Ratings, Name) (Multiple Select at a single time)
2. Banner with a video
3. Featured Teachers Section (Become Our Teacher, where one can click and register as a teacher, we hope it can be so catching that people can notice easily)
4. About the company
5. How does the entire process works?
6. Students Testimony
7. All types of instruments
8. Footer:

* Logo
* Terms and Conditions
* Payment Policies
* Privacy Policies
* Accepted Payments Logos
* Social Media Icons
* CMS Links
* Contact us

Search result Page:

In this section the entire music teachers listing will be shown, this includes:

1. Listing in the form of List and grid
2. Sorting option:

* Ascending
* Descending
* Reviews (More to Less)
* Reviews (Less to More)
* Price (Low to high)
* Price (High to Low)

1. Filters:

* Reviews
* Instrument Category
* Price Range
* Language
* Music genre
* Levels (Beginner, Intermediate, Advanced)

1. Display grid includes:

* Name
* Image
* Per Lesson Price
* Music Genre
* Instruments use
* Experience in total
* Short Self-introduction
* View More Button

Teachers Details Page:

1. Profile image for Teacher (High-Resolution Professional image)
2. Name of the Teacher
3. Teachers availability in time slots (here a teacher can range the days such as from Monday to Friday and the time range between this hour to this hour both for the lesson as well as chat purpose) however, revert time slot (from here teacher will select the range of days on which a teacher can respond to the student response days will be from Wednesday to Friday or perhaps Saturdays and Sundays they will respond within specific time slots just like above, however, the revert back time for the teacher shall be 7 calendar days).
4. Small description of the Teacher
5. Music Genre/Category of a teacher
6. Teacher Specialized Instruments

* There will be a separate experience teachers need to have for specific instruments, for example, if piano, then it has been something like 3 years if Violin than it will be something like 2 years

1. Overall Experience: In this section, we will be showing the overall experience for the teacher associated with all the music instruments.
2. Teachers demonstration video self-playing needs to upload to the website maximum of 3 minutes (up to 1 GB)
3. Language Spoken (Both English and Mandarin, teachers can write any language they speak)
4. Basic Location Details
5. Price Per Lesson
6. Book a Lesson (Button)
7. Average Ratings of the Teacher along with view all rating and reviews button

* On clicking on review button a student shall see all the reviews about the teachers along with their ratings.

Booking a Lesson:

To book a lesson, a student needs to follow certain steps:

1. Name
2. Country
3. Language
4. Select a day from the calendar on which student wants to send the video
5. Message Box
6. Send Booking Request Button
7. Cancel/Back
8. It will be a popup that includes basic details and if any unregistered user/students want to send the booking request, he shall first need to login/register on the portal
9. This shall send the booking request to the teacher, teach shall be able to see the booking request in her account section and from there, the teacher shall be able to find all the related details such as basic student details, along with message and confirmation to accept or decline.
10. On the decline: if in case a teacher declines, this gives the notifications to the student that your request has been declined by the teacher due to certain reason and kindly look upon a new teacher for this time slot. A teacher needs to decline the booking request and shall be able to give a valid reason to associate with it.
11. Accept: When to accept, a teacher needs to write a welcome message for the student and again that shall be shown in the notification section of the student.
12. Payment Notification: This notification shall ask the student to make the payment for the booking along with the system notification a user shall get the email that includes the payment page URL or a student shall be able to guide through the booking from his account section and from there he shall see the option to make a payment, this makes payment only appear in case of teacher accept the booking request. (This will also be sent to admin)
13. Make Payment: For making the payment, the student needs to clicks at making payment button that will be shown on my bookings > confirm booking page, a user will have the option to pay using their debit, credit cards, for this purpose we shall have the Paypal/Stripe as a payment gateway.
14. Upon making the payment, an email shall be sent to both, a user (student). Admin and teachers about the booking confirmation have been by the student.

Chat Feature:

Upon expecting the request of the student, the teacher and student shall be able to chat using their chat window at the bottom, every chat history shall be seen in their respective accounts (Both teacher and Students), this will be simple real-time chat with a language translator between English to mandarin and mandarin to English. (In the chat, we would like all the phone numbers and email addresses will be automatically unreadable to the receiver so that they have to communicate through our web.)

Upload a Video & Note Files:

Now at the time when student selected the day for sending the video, he will be getting the email notification about the video upload and the email will have the page link where the student needs to upload the video (and upload the notes which he/she is playing). However, if a user needs to upload the video he shall navigate through my booking > Confirm Booking > Upload Video.

1. Once uploaded by the student, the notification to be sent to the respective teacher mentioning the video upload by the student along with a download link
2. A teacher than shall download the video and within the same booking with the student, there will be an option for the teacher to upload the video from their side
3. Once a video been downloaded by the student, the student shall be able to see all the mentioned details in the video and shall be able to rate the teacher as per her teaching skills. (Students will get an email notification about reviewing the teacher)(Teachers shall be able to rate the student as well, such as communication or overall experience, teachers will get an email notification about reviewing the student)
4. The reviews shall be sent to the admin first and upon admins approval, the review shall be listed on the teacher’s profile. And student’s review on students’ profile.

Student Profile:

The student will be able to view and edit the profile details.

1. My Account Section: User will be able to edit his profile details from here (gender, phone number, email address)
2. The student will be able to add country language and Tim zone
3. My Bookings: This page will further have divided amongst 2 sections:

* Pending Booking: These are the one which is in pending status, which means a student has sent the request to the teacher, however, they are yet to be accepted or declined.
* Confirmed Booking: They are the one which is confirmed by the teachers, videos and payments shall be made within these booking types, It includes the flow, such as:
* Make Payments
* Upload Video (From Student Side)
* Download Video (From Teacher’s Side)

1. Booking History: Within this section, a student shall be able to see all the previous bookings, along with teacher’s details, payment details, reviews for each specific booking a student has made in the past.
2. My Chat: Furthermore, within this section, a student shall see all the chats he has made across all the teachers, includes more recent one on the top
3. Payment Details: Here user can be able to save the cards and other payment details to be used later purpose
4. Change the language
5. Notifications
6. General settings
7. Switch to teacher account: well this will be a complete module altogether, a student shall be able to switch the accounts in between as a teacher’s account, after switching to this account, the system will ask the basic details about the student, such as:

* Music Genre
* Instrument specialization (Multiple)
* Experience for each instrument
* Level Taught (Beginner, intermediate, Advanced)
* Total Exp
* Upload demonstration video of self-playing that everyone can see teacher will be able to upload that video to the website
* Short Introduction
* Upload Certificates
* Submit, then the details shall send to the admin for verification and after verified it will be listed on the website

1. Logout

Student Notifications:

1. Registration
2. Lesson request accepted
3. File received
4. Chats

CMS Screens: There will be several CMS pages within the application that will be managed through the super admin panel

1. About us
2. Privacy policies
3. Contact us
4. FAQ
5. Terms of uses

**Teacher’s Flow:**

Register and Login:

Teachers will be able to register the application simply by specifying

1. Name
2. Email ID
3. Birthday
4. Phone number
5. Password
6. Confirm Password

Login or Register Using **Facebook**

After filling all the information for registration an email will go to Service providers email id to confirm authentication of the service provider and clicking on that link teacher will have to do login and further process

To log in to the system, the service provider will have to provide:

* Email/Username
* Password

Forgot Password:

A teacher can retrieve his password using “Forgot password”. The application will ask the user to provide their registered email id and a link will be sent to them. Clicking on the link will open a page asking for a new password and with this, the password will be changed.

Complete Profile Details: After the initial registration teacher will have to complete its profile by filling all the required information below

1. Contact information (gender, phone number, email address)
2. City
3. Music Genre Category
4. Instruments Specialize in
5. Experience on each Instruments
6. Level Taught (Beginner, intermediate, Advanced)
7. Total Years of experience
8. An upload Photo ID can be a high resolution, a professional photo, at least 1024 \*1024 pixels in size. The teacher will be able to crop that image
9. country, time zone, language
10. Upload demonstration video of self-playing that everyone can see teacher will be able to upload that video to the website.
11. Short Introduction
12. About Me
13. Upload certificates

After filling all the necessary information profile will go to admin for review and after approval, the teacher will be able to list on the website

Teachers Account:

In my account section, teachers will be able to check below information

1. My Details
2. My Bookings (Student): This page will further have divided amongst 2 sections:

* Pending Booking: These are the one which is in pending status, which means a student has sent the request to the teacher, however, they are yet to be accepted or declined.
* Confirmed Booking: They are the one which is confirmed by the teachers, videos and payments shall be made within these booking types, It includes the flow, such as:
* Make Payments
* Upload Video (From Student Side)
* Download Video (From Teacher’s Side)
* Booking History: Within this section, the student shall be able to see all the previous bookings, along with teacher’s details, payment details, reviews for each specific booking a student has made in the past.

1. My bookings (Teacher), it will be further divided into:

* Booking Request:
* Accept
* Reject
* The teacher will write a comment when accept, such as welcome words; a teacher can write a comment when reject, such as the reason why he rejects
* After the teacher accepts, a reminder to the teacher that he should be sent the feedback video within 7days after receiving the student video
* If user Accepts request he will receive files uploaded by the student and then in a given window he will correct file correct music and return it to the student
* Confirm Bookings: Here the teacher will have options such as:
* Download File
* Upload File

1. Lessons Completed in the past (Teacher): In this teacher can check the reviews, videos uploaded by the teachers and student details.
2. A teacher can change password
3. A teacher can manage their price
4. Chat History
5. General Settings
6. Logout

Email Notifications/onsite chat for teachers

1. Registration
2. Approval
3. Lesson Request
4. Before uploading the video, a reminder of some teaching technics, like mentioning students name at the beginning of the video, will be sent to the teacher. (details will be provided)
5. Reviews
6. Chats

**Admin Panel Flow**:

Login:

Admin will login into their panel using provided id & password, we will set up the admin account for the first time and will share the credentials for future access. Password can be anytime changed using the “Forgot password” option available.

Dashboard:

It consists of overall portal information:

1. Total Number of Students Registered
2. Total Number of Teachers Request
3. Lesson Booked so far
4. Total number of Monitory transactions
5. Navigations:

* Manage Student
* Manage Teachers
* Manage lesson requests
* Manage Payment
* Manage Rating and reviews
* Emails/notifications
* Static content and Images

1. General Settings
2. Logout

Manage Users:

1. Admin shall be able to create, view and edit any student details
2. Admin shall be able to delete or deactivate any student records
3. Admin can search for any particular student using search options available.

Manage Teachers:

1. Admin shall be able to see all the teacher request from this section
2. On one click admin shall be able to check their details and certificates and upon the verification, admin shall be able to either allow them or reject them, if allow the teachers shall be listed in the on the website
3. Admin shall be able to create, view, edit and delete any specific teacher
4. Admin will have the option to look out the teachers using a search parameter

Manage Music Category and Instruments:

1. Admin will have the option to add, edit and view the music category along with their instruments on the websites
2. Admin shall be able to delete them as well

Manage Bookings:

1. Admin shall be able to check all the booking request made by the student respective to their teachers
2. Admin shall be able to see the status of booking either accept or decline along with its reason
3. Admin shall also see the payment has been made by the student on every accepted request
4. Admin shall see the final status of the booking or lesson and can see the video been uploaded by the students and teacher respectively.
5. Admin can see all the complete lesson booking as well.

Manage Chat:

Another main aspect of the admin panel will have to view all the chat history across all the users.

Payment Transactions:

Admin shall see the detailed transactions made by the students and further can be directed to their specific bookings

Manage Reviews and Ratings:

1. Ratings and reviews on the website will be published once the admin approves them without that it will not be published to the website
2. Admin shall also delete any appropriate comments

Notification/email:

1. Student Registration
2. Teachers Registration
3. Teacher confirmations
4. Booking Request sent
5. Booking accept or decline
6. Booking Payment Made
7. Booking video uploads
8. Reviews Made

CMS Screens management:

1. About Us
2. Contact Us
3. Terms and Conditions
4. Privacy
5. Help
6. FAQs

**Third-Party API’s**

Payment Gateway API:

To enable users to make payment to book services on the app, we will need to integrate payment gateway into the app and website. The client will need to provide us with the merchant account details of the Stripe/Paypal payment gateway. We can use the stripe payment gateway to transfer the amount to bank accounts of service professionals directly.

Zendesk chat API:

In our app, there will be an option to chat with Admin for user’s questions under contact us. So we need to purchase a subscription of Zendesk

Klaviyo:

We will use this API as email services. To check the features if emails can get stored for sending bulk emails or track users; we will need to check it thoroughly with the team

*\* If there will be any paid third party plugin required, the client will need to purchase and provide us with the details*

# Technology & Articture

|  |  |  |
| --- | --- | --- |
| **Development Phases** | | **Tools & Technology** |
| **Requirement Analysis, Proposal Drafting, SRS Document** | | MS Office World 2010  MS Office Visio 2010  MS Office PowerPoint 2010  Axure RP Pro 6.0 |
|  | **Website** | PHP, HTML, CSS, Bootstrap |
|  | **Admin Backend Panel** | PHP. My SQL |
|  | **Quality Assurance** & **Testing** | Test Cases &Test Plans –MS Office Word 2010  Testing – Manual  Bug Tracking and Reporting Tool - Jira |

# Project Deliverables

The following documents will be delivered after the completion of the entire project and client satisfaction:

***SRS Document***

This part of the service includes technical analysis of client requirement and giving them a logical form. For the same, this proposal document will be used as basic requirement document.

***Complete Source Code***

The Complete source code is shared with the client, so that in future if the client needs any changes or want to integrate some features and functionalities in the website will be quite easy to implement

***Website Build***

After completing the development of the website we provide you with the complete source code of the website

***Training Documents***

The website backend admin guide document will be shared to the client

***Hosting***

The website will be hosted on ARKA staging server during the development phase and we will share recommended server configuration to the client about like E2E server, AWS Server etc. and will transfer the complete code on the client-server. The client will need to bear the cost of the monthly or annual cost of the hosting server

# Important Points

1. We would expect feedback on the SRS within 3 days of submission. If we don’t hear back from client-side, we will assume it as approved and proceed with next steps.
2. All text matter will be provided only by you.
3. After completing the project we will provide you with all the source code, text/content, Graphics files & other related files.
4. During the whole development, we need assistance from your side.
5. During the whole development, our project leader will be in touch with you & will keep you updated about the work.
6. You will have all the copyrights & permissions of the website. If any kind of image/script/API or any other thing, which is required to be used in the website & involves additional payment to purchase it, we'll intimate you about it. Such payments need to be borne by the client& provide us with such image/script/API etc.
7. We have taken the mail and reference website/app while preparing the specification document& have listed all that we understood & found there. Yet, it is quite possible that we might not have noted some features in the reference app/document. Our scope of work is specifically based on the features listed in the specification document. Therefore, any other feature, which is not listed by us in the specification document, will not be considered as part of the scope & hence, will be considered as New Change Request when we are intimated about any such thing later.
8. Our scope of work is specifically for Application development work & hence hosting, data entry etc. or any other such things are not included.
9. Client Feedback time is not more than 3 days. If any client failed to provide the feedback in 3 working days then Project should go on hold until you hear back from the client. And the resume time on that project would be a minimum of 1 week and clearance of invoice if any outstanding.
10. Project Change Request would be a vital part and has to be handle very smoothly. Every Change Request coming after SRS is frozen will be added to the newsprint called “Change Requests” and this sprint will be taken care of only after completion of all the project sprints completed and the invoices for the same are cleared. This particular sprint will be paid tasks and the client has to be informed with additional time and cost involved to finish that.

# Warranty

It should kindly be noted by the client that our company shall provide 90 days of technical support and training to the client after the completion of the work provided. This will include the support to resolve only the bugs arising in the backend and app. A new feature or change in a feature will not be considered here. In Case of any queries, kindly do notify, our customer care executive shall respond and resolve your queries well within 24 hours.

In case of any doubts or questions please do notify us as the same shall be resolved at the earliest, I shall see to it that your query gets its desired answer to your satisfaction. Last and not the least, wishing you all the very best on your project, we wish that you find what you are looking for with us. Thank you for your valuable time to review our project analysis. Hope to hear from you shortly