American International University-Bangladesh (AIUB)

Department of Computer Science

Faculty of Science &Technology (FST)

Fall 23-24

Music Solution Hub- A website related to music

Software Requirement Engineering

Sec: **A**

Project submitted

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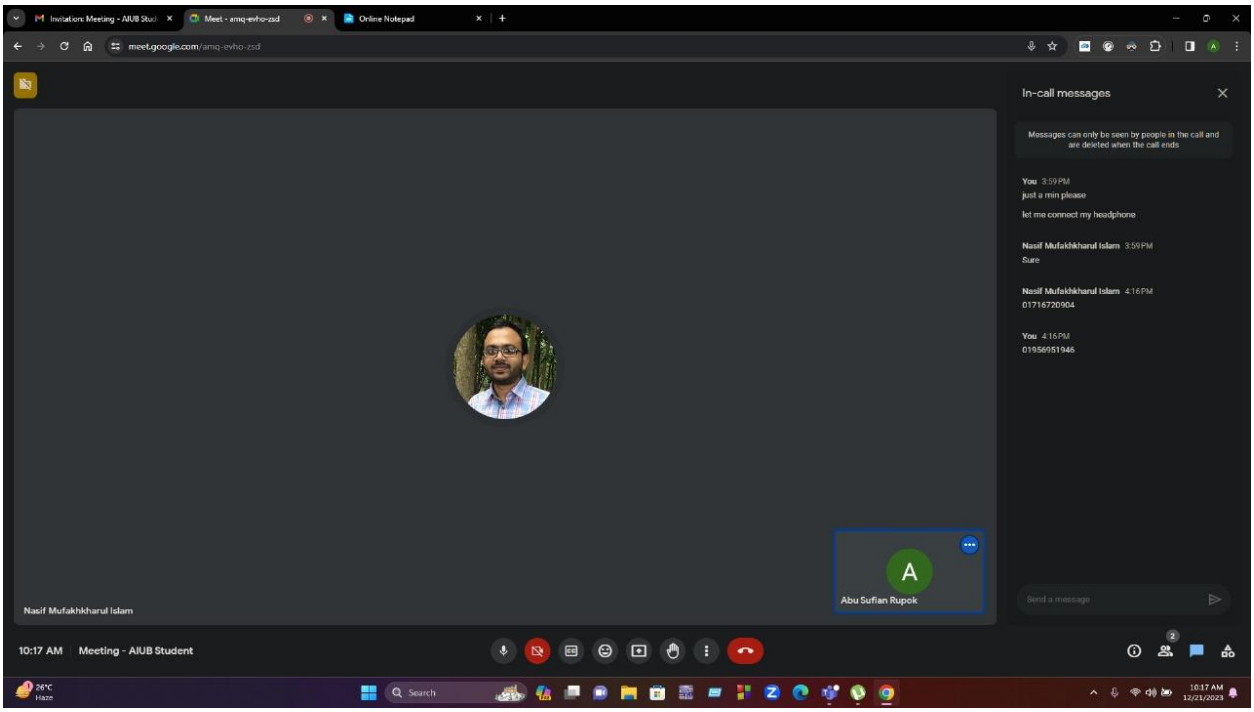
ENOSIS SOLUTIONS

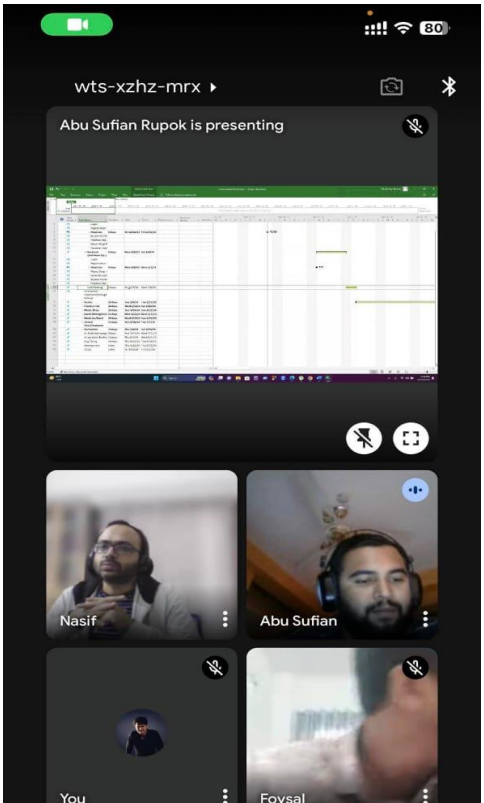
1st Meeting (21/12/2023) Time:4.00PM :

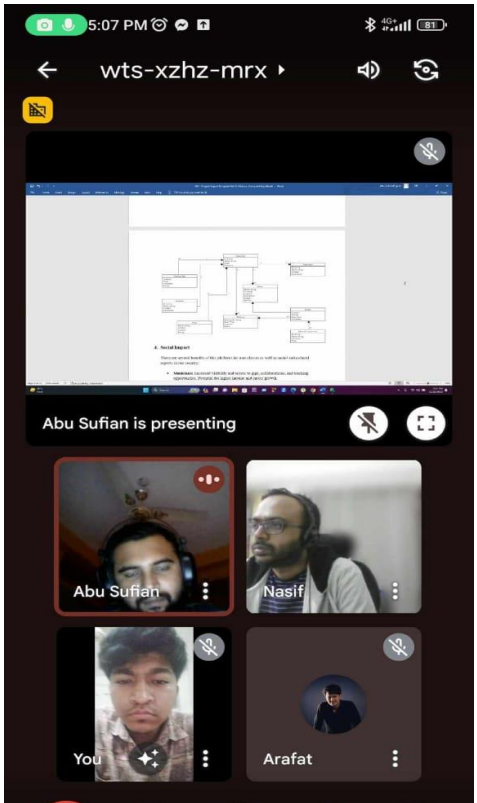


Agenda: First review of our work, Discussion on:

1. Project Development Scheduling
2. Proper Resource Allocation
3. Cost generation from Project Schedule

2nd Meeting (22/12/2023) , Time: 5.00PM:

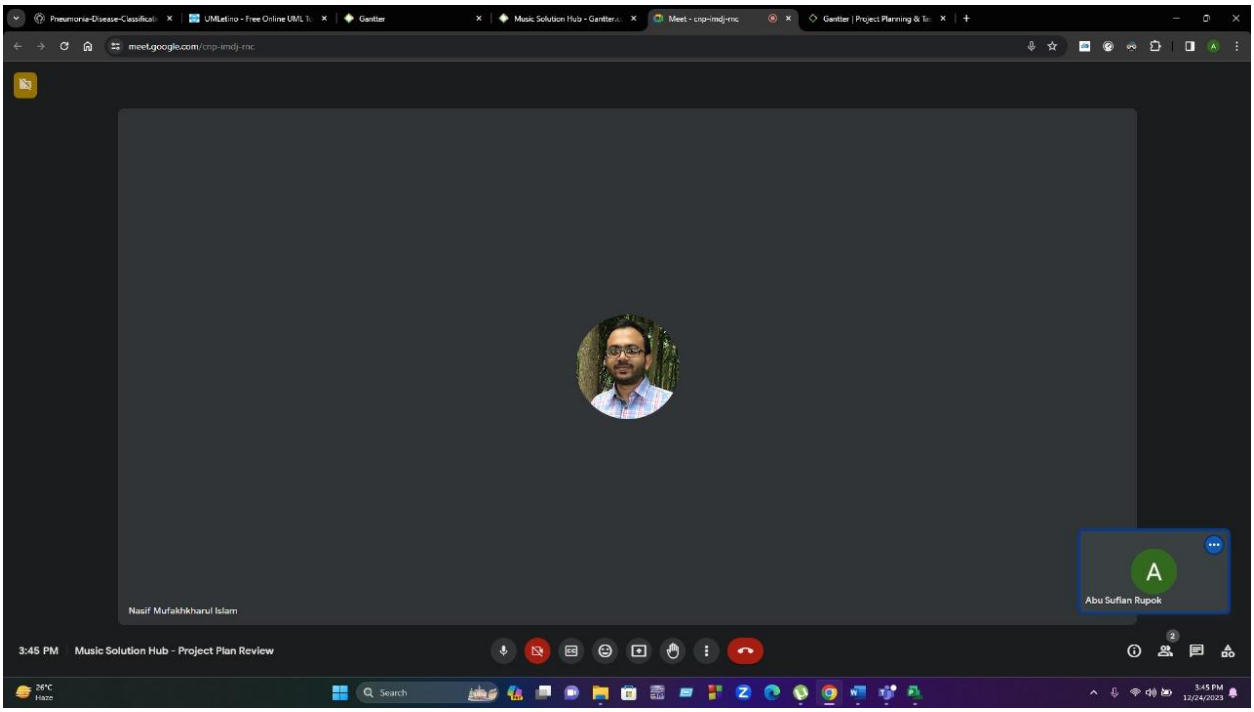




Agenda: This meeting was about:

1. Bug fixing of our work.
2. Diagram Review and Issue.

3rd Meeting (24/12/2023) Time: 3.00PM:



Agenda: This meeting was about:

1. Complete Review of Work.
2. Approval.

3. PROBLEM DOMAIN

3.1 Background to the Problem

In Bangladesh's music scene, things are quite messy. It's tough for to find work(as a musician), suitable musician for any gigs, bands/musician to perform on an event or party, qualified music teacher, qualified technician for repairing musical equipment, those musicians who can't actually reveal their talent because of good musical

equipment , fans to discover new music, and businesses to fill their spaces and many more. Imagine musicians lost in a maze, unable to find gigs or even connect with other musicians. Fans feel like they're searching for buried treasure, missing out on amazing musicians because it's hard to find them. And studios and service providers? Their calendars are like empty rooms, full of missed opportunities because they can't reach the right people.

3.2 Solution to the Problem

"Music Solution Hub"- A web application aims to fill this gap by offering a dedicated platform built specifically for the Bangladeshi music scene, offering features and functionalities tailored to local needs and preferences. Its all-encompassing nature combines various services under one platform, providing a more comprehensive user experience. It is designed to bridge the gap between musicians, music businesses, services related to music and fans in Bangladesh. It aims to create a vibrant and thriving music ecosystem by:

1. Connecting musicians, studios, music shops, event organizers, equipment providers, and music enthusiasts.
2. Enabling efficient discovery, hiring, booking, renting and purchasing of music-related services and products.
3. Creating a space for discussions, collaborations, and knowledge sharing within the Bangladeshi music scene.

The objective is to become the leading platform for the Bangladeshi music scene, foster a vibrant and active community of music enthusiasts. There are several benefits of using this software/website such as: increased exposure, easier gig booking, online teaching and learning opportunities, fan engagement tools, play on hire, or hire someone and having on- demand music related services for musicians and increased customer reach, streamlined bookings, efficient resource management, marketing opportunities and so on for businesses which are related to music and also many more services for general users as well. Several international platforms like BandMix, GigSalad, and Reverb serve similar purposes, but lack strong focus on specific regional music scenes. Locally, there might be smaller platforms or Facebook groups catering to specific music communities, but they often lack comprehensive features and scalability.by addressing the specific challenges and opportunities within the Bangladeshi music scene, "Music Solution Hub" has the potential to become a powerful tool for growth and connection, ultimately benefiting the entire music ecosystem.

4. SOLUTION DESCRIPTION

4.1 System Features

1. Introduction:

This document outlines the software requirements for "Music Solution Hub," a web application designed to connect musicians, music enthusiasts, and music-related businesses in Bangladesh. The platform aims to address the challenges of fragmented connections, limited discoverability, and inefficient resource utilization within the music ecosystem.

2. Target Users:

i) Musicians/Band: Individuals or bands seeking gigs, collaborations, online teaching opportunities, and fan engagement.
ii) Practice Pad Owners: Individuals or businesses renting out practice spaces.
iii) Studio Owners: Owners or managers of recording studios offering studio sessions and engineer services.
iv) Music Shop Owners: Owners or managers of online or offline music stores selling musical accessories.
v) Event Organizers: Individuals or businesses planning concerts, parties, or other musical events.
vi) Customers: Music enthusiasts interested in discovering new music, booking services, attending events, and purchasing accessories.

vii) Sound Engineers: Professional audio engineers offering studio recording and mixing services.

3. Functional Requirements:

3.1 User Accounts and Profiles

i) Secure login and registration system with email or phone verification for all user types.
ii) Each user type can manage their profile, including updating information, uploading photos/videos, and managing settings.
iii) Musicians and bands can showcase their talents through audio samples, videos, and performance history.
iv) Studio owners can showcase their studios with photos, equipment details, and engineer profiles.
v) Event organizers can create detailed event pages with schedules, artist listings, ticket sales, and sponsorship opportunities.

vi) Customers can leave reviews and ratings for services, events, and equipment rentals.

3.2 Services

- Hire Musicians/Bands:
  - i) Customers: Filter musicians/bands by genre, instrument, location, experience, availability, and price. View profiles, attend workshops, membership of fanbase, contact directly, and securely book and pay for services.
  - ii) Musicians/Bands: Manage bookings, schedules, set pricing and package deals, offer online lessons, host workshops, and manage fanbases.
- Book Practice Pads:

i) Customers: Filter practice pads by location, amenities, price, and availability. View photos, descriptions, reviews, and book and pay for sessions online.

ii) Practice Pad Owners: Manage bookings, schedules, set pricing and cancellation policies, update information and photos.

- Book Studios:

i) Customers: Filter studios by location, equipment, engineers, price, and availability. View photos, descriptions, engineer profiles, and book and pay for sessions online.

ii) Studio Owners: Manage bookings, schedules, set pricing and package deals, update information, photos, and equipment details.

- Buy Accessories:

i) Customers: Browse musical accessories from online shops, filter by category, price, brand, and condition, read descriptions, reviews, and purchase with secure payment options.

ii) Music Shop Owners: Manage online store, add/edit products, set prices, update inventory, process orders, manage inquiries, and offer promotions.

- Launching Musical Events:

i) Event Organizers: Create and manage event pages with details, set schedules with in-built calendar, artists, ticket sales, book musicians/bands, studios, and event services.

ii) Customers: Browse upcoming events, view details, buy tickets, and leave reviews and ratings.

- Renting Equipment:

i) Customers: Search for specific equipment by type, location, price, condition, and availability, book and pay for rentals or purchases, rate and review providers.

ii) Equipment Providers: List equipment for rent or purchase, set pricing and conditions, manage bookings, communicate with clients, and offer subscription service plans.

- Repairing Equipment:

i) Customers: Filter technicians by location, equipment type, service category, rating, and price, view profiles, qualifications, reviews, request service, track repairs, and rate and review service.

ii) Technicians: Update information, receive and review service requests, provide custom quotes, confirm appointments, communicate with customers, manage service offerings, and track and provide information on repair progress.

3.3 Additional Features

- In-app messaging system for communication between users.
- Payment platform

4. Non-Functional Requirements:

4.1 Performance:

- Responsiveness: The platform should be responsive and load pages quickly on both desktop and mobile devices later on.
- Scalability: The system should be able to handle increasing traffic and data volume without significant performance degradation.
- Availability: The platform should be highly available with minimal downtime to ensure uninterrupted service for users.

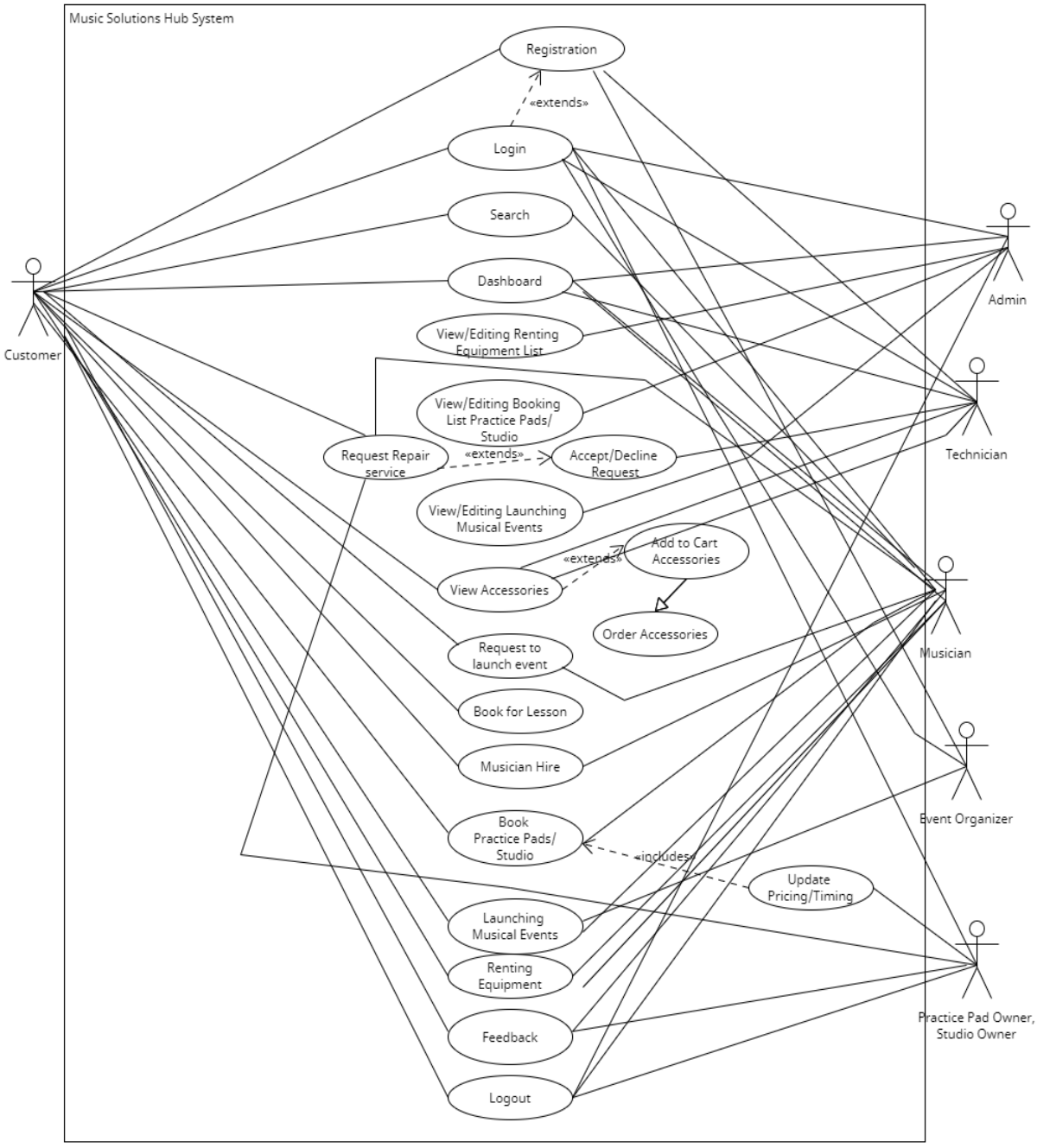
4.2 Security and Privacy:

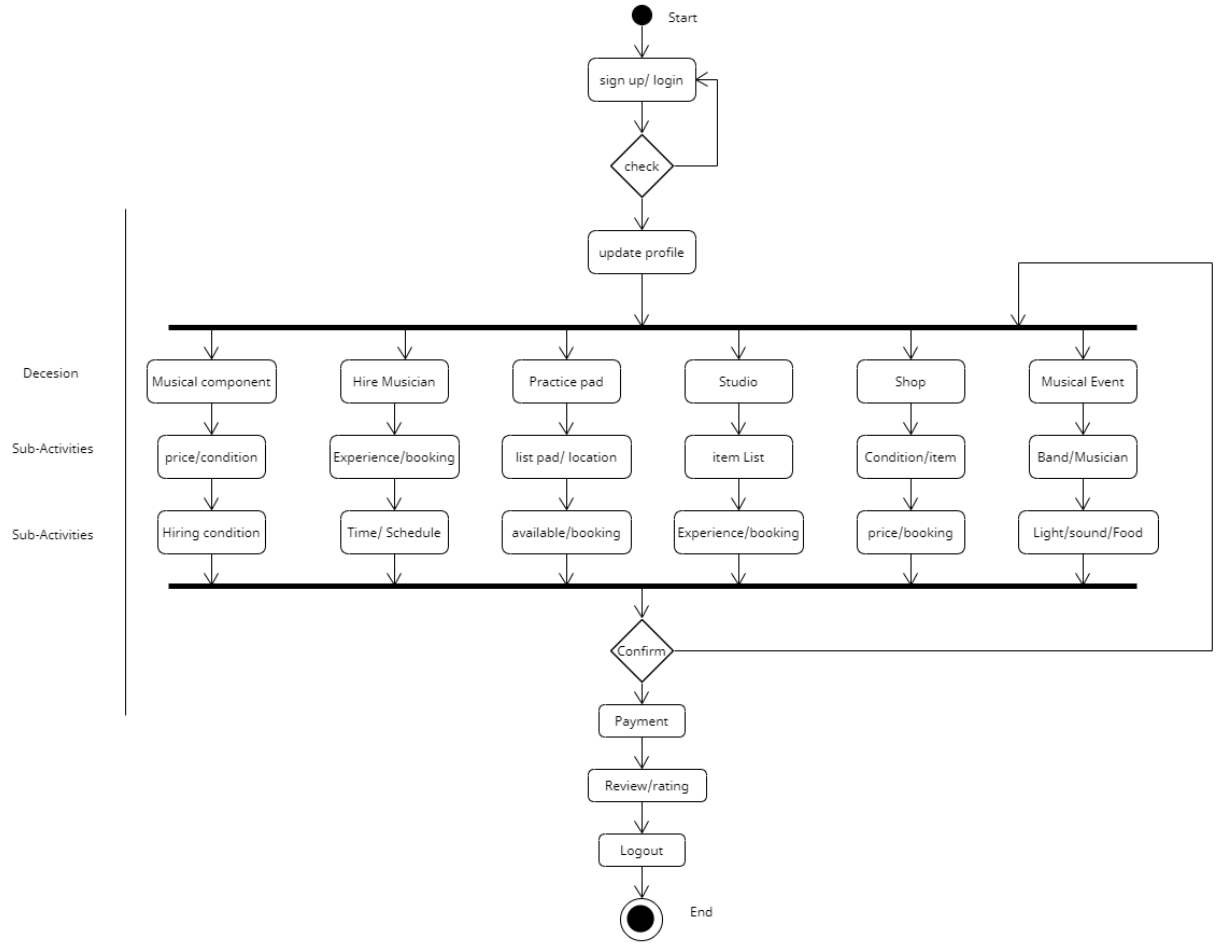
- User data security: User data, including personal information and financial details, must be securely stored and protected against unauthorized access and breaches.
- Privacy protection: User privacy should be respected by implementing industry-standard privacy safeguards and allowing users control over their data.
- Secure transactions: The platform should facilitate secure payment processing for bookings, purchases, and rentals.

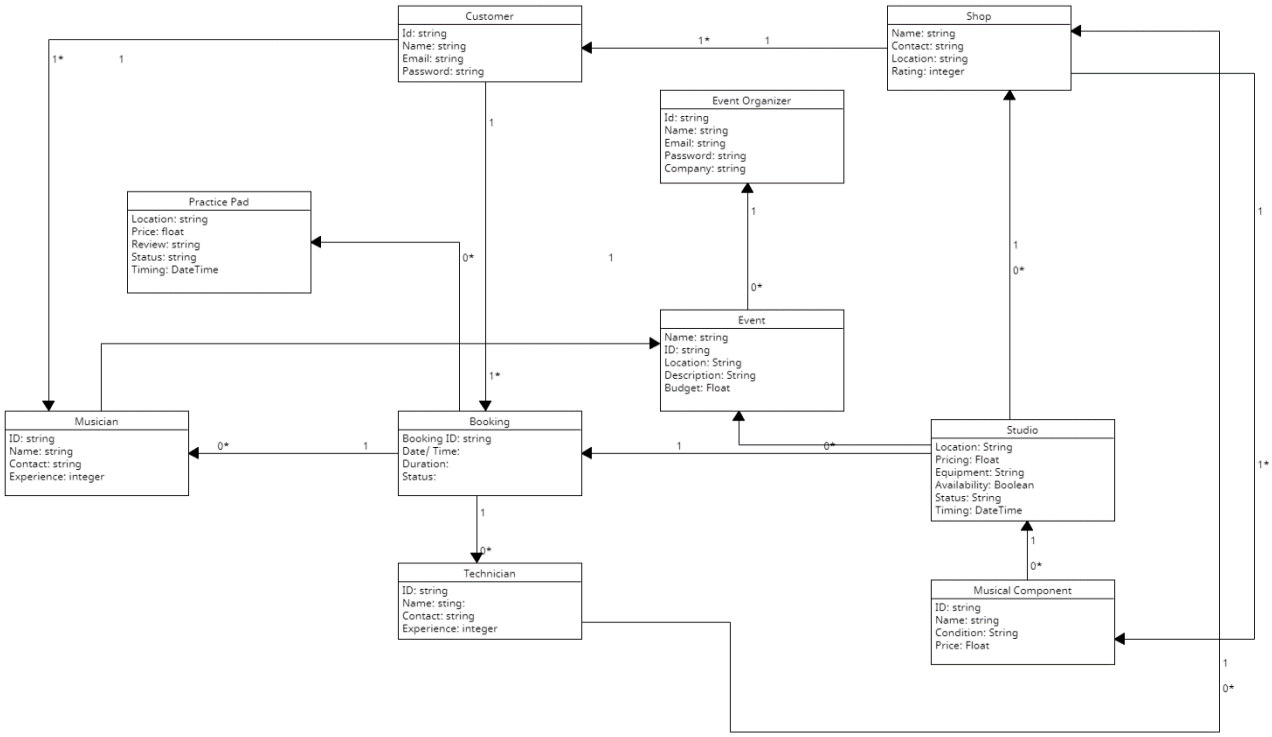
4.3 Usability and Accessibility:

- Intuitive interface: The user interface should be intuitive and easy to navigate for users of all technical skill levels.
- Accessibility: The platform should be accessible to users with disabilities and comply with relevant accessibility standards.
- Localization: Consider offering localized versions of the platform interface and content to cater to diverse user needs.

5. UML Diagrams


Music Solutions Hub System
Registration
«extends»
Login
Search
Dashboard
View/Editing Renting Equipment List
View/Editing Booking List Practice Pads/ Studio
Request Repair service
«extends»
Accept/Decline Request
View/Editing Launching Musical Events
«extends»
Add to Cart Accessories
View Accessories
Order Accessories
Request to launch event
Book for Lesson
Musician Hire
Book Practice Pads/ Studio
«includes»
Update Pricing/Timing
Launching Musical Events
Renting Equipment
Feedback
Logout
Customer
Admin
Technician
Musician
Event Organizer
Practice Pad Owner, Studio Owner


Start
sign up/ login
check
update profile
Decesion
Sub-Activities
Sub-Activities
Musical component
Hire Musician
Practice pad
Studio
Shop
Musical Event
price/condition
Experience/booking
list pad/ location
item List
Condition/item
Band/Musician
Hiring condition
Time/ Schedule
available/booking
Experience/booking
price/booking
Light/sound/Food
Confirm
Payment
Review/rating
Logout
End



6. Social Impact

There are several benefits of this platform for user classes as well as social and cultural aspects in our country:

- **Musicians:** Increased visibility and access to gigs, collaborations, and teaching opportunities. Potential for higher income and career growth.
- **Practice Pad Owners:** Enhanced occupancy rates and improved utilization of practice spaces. More streamlined booking and payment processes.
- **Studio Owners:** Better booking management, increased client base, and potential for higher revenue. Improved visibility and reputation of studios.
- **Music Shop Owners**: Increased online sales and customer reach. Enhanced brand awareness and marketing opportunities.
- **Event Organizers:** Simplified event planning and execution through centralized booking of musicians, studios, and services. Potential for attracting larger audiences and higher ticket sales.
- **Customers:** Enhanced music discovery and easier access to quality services. Convenient booking and payment options. Improved event planning and attendance.
- **Band/Musician Groups:** More efficient collaboration and communication within groups. Effective fan management and engagement tools.
- **Sound Engineers:** Increased visibility and access to work opportunities. Efficient client communication and booking management.

- **Community Building:** Fostering a stronger music community by connecting musicians, fans, and businesses. Creating opportunities for collaboration and knowledge sharing.
- **Cultural Impact**: Promoting a vibrant and diverse music scene in Bangladesh. Enhancing cultural expression and appreciation.
- **Economic Growth:** Generating new jobs and businesses within the music industry. Contributing to the local economy.
- **Technology Adoption:** Encouraging the use of digital platforms and online services for booking, communication, and payments.
- **Social Impact:** Providing positive outlets for creative expression and community engagement. Potentially reducing crime and social delinquency.

7. Development Plan with Project Schedule

7.1. Planning:

i) Defining project scope
ii) Conducting feasibility study
iii) Creating project plan
iv) Assembling the project team.

7.2. Requirements Analysis:

i) Gathering user requirements
ii) Documenting functional requirements
iii) Identifying and documenting non-functional requirements

7.3. Design:

i) Developing User Interface (UI) prototypes
ii) Creating system architecture
iii) Documenting technical specifications.

7.4. Development:

i) Implement core functionalities: Start with building the essential features for each user role, prioritizing functionalities with the highest impact and user value.
ii) Adopting an iterative approach
iii) Utilizing version control system

7.5. Testing:

i) Conducting unit testing and integration testing
ii) Fixing bugs and issues.

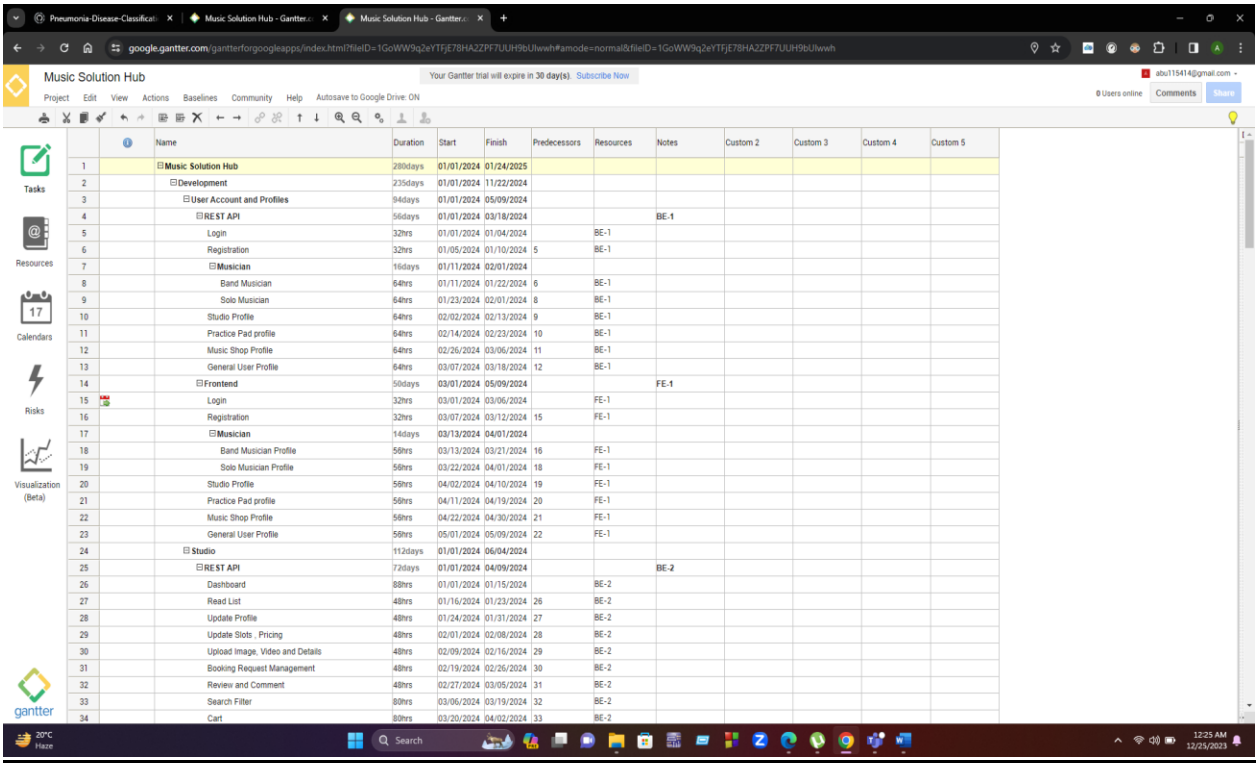
7.6. Deployment:

i) Choosing a hosting platform
ii) Implementing CI/CD pipeline
iii) Launching the platform

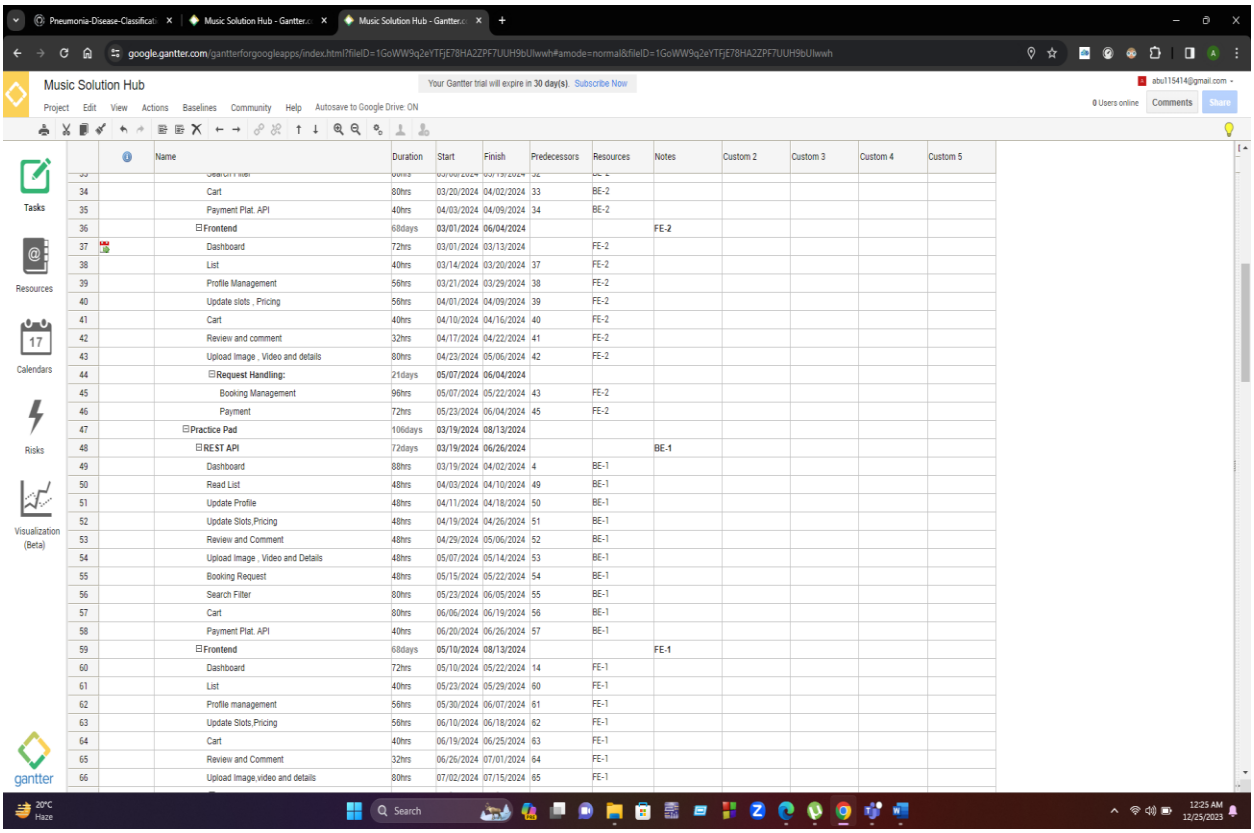
7.7 Maintenance:

i) Monitor performance and usage
ii) Provide ongoing support
iii) Implement updates and improvements.

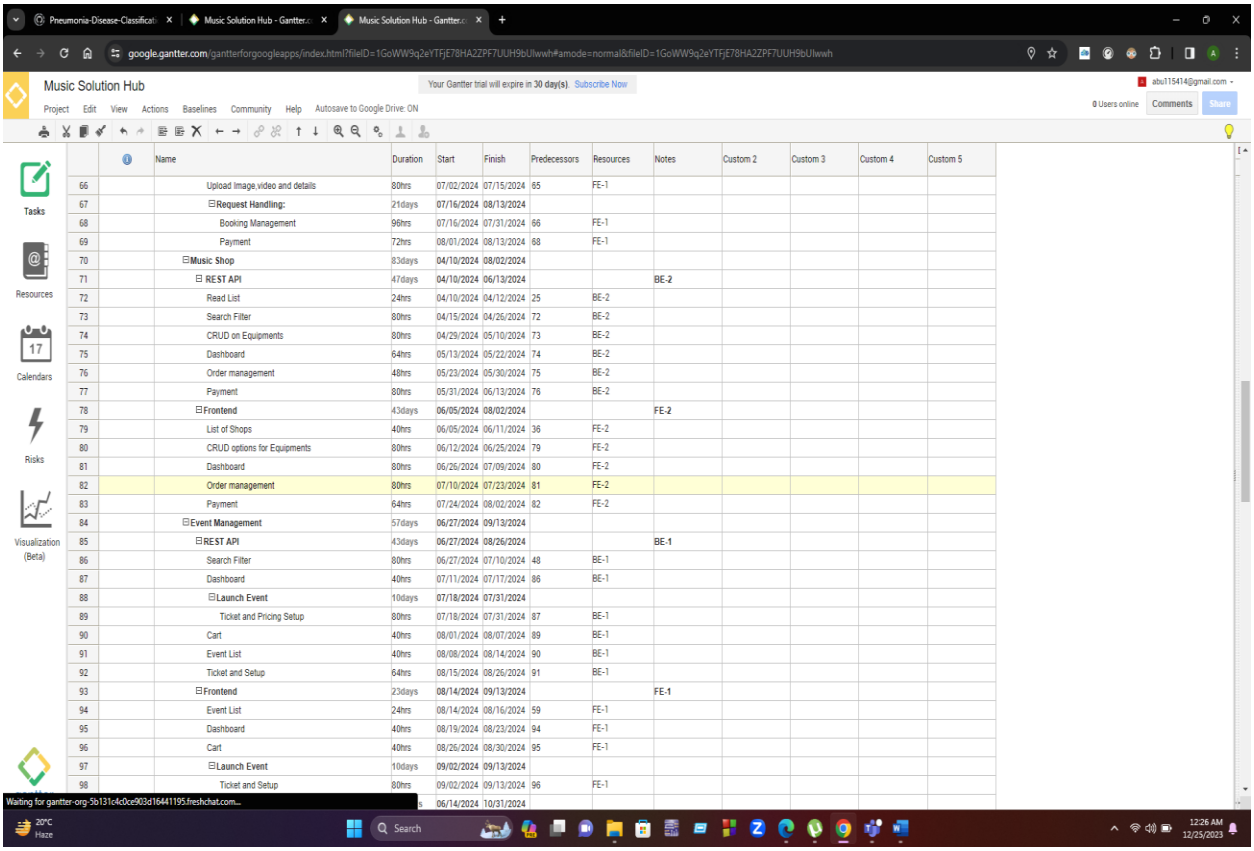
7.8 Project Scheduling using 'Gantter':



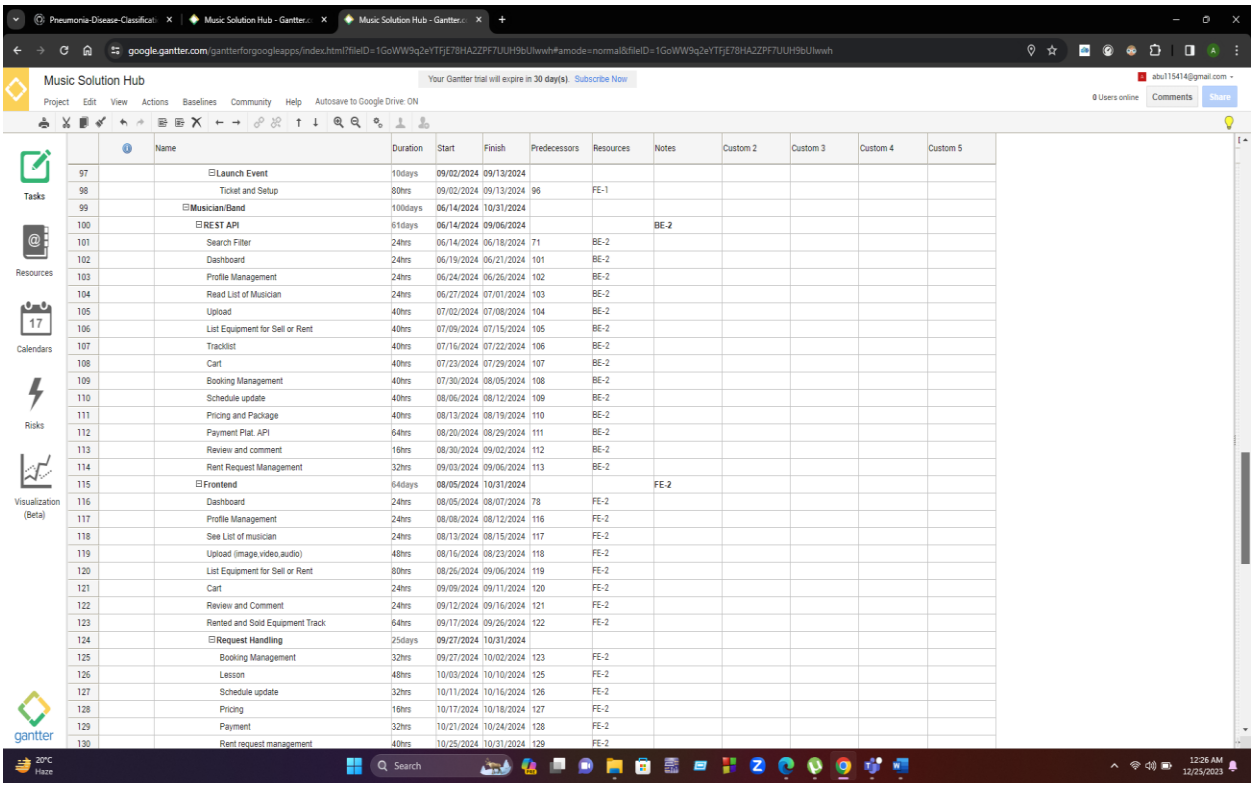
	Name	Duration	Start	Finish	Predecessors	Resources	Notes
1	Music Solution Hub	280days	01/01/2024	01/24/2025			
2	Development	235days	01/01/2024	11/22/2024			
3	User Account and Profiles	94days	01/01/2024	05/09/2024			
4	REST API	56days	01/01/2024	03/18/2024			BE-1
5	Login	32hrs	01/01/2024	01/04/2024		BE-1	
6	Registration	32hrs	01/05/2024	01/10/2024	5	BE-1	
7	Musician	16days	01/11/2024	02/01/2024			
8	Band Musician	64hrs	01/11/2024	01/22/2024	6	BE-1	
9	Solo Musician	64hrs	01/23/2024	02/01/2024	8	BE-1	
10	Studio Profile	64hrs	02/02/2024	02/13/2024	9	BE-1	
11	Practice Pad profile	64hrs	02/14/2024	02/23/2024	10	BE-1	
12	Music Shop Profile	64hrs	02/26/2024	03/06/2024	11	BE-1	
13	General User Profile	64hrs	03/07/2024	03/18/2024	12	BE-1	
14	Frontend	50days	03/01/2024	05/09/2024			FE-1
15	Login	32hrs	03/01/2024	03/06/2024		FE-1	
16	Registration	32hrs	03/07/2024	03/12/2024	15	FE-1	
17	Musician	14days	03/13/2024	04/01/2024			
18	Band Musician Profile	56hrs	03/13/2024	03/21/2024	16	FE-1	
19	Solo Musician Profile	56hrs	03/22/2024	04/01/2024	18	FE-1	
20	Studio Profile	56hrs	04/02/2024	04/10/2024	19	FE-1	
21	Practice Pad profile	56hrs	04/11/2024	04/19/2024	20	FE-1	
22	Music Shop Profile	56hrs	04/22/2024	04/30/2024	21	FE-1	
23	General User Profile	56hrs	05/01/2024	05/09/2024	22	FE-1	
24	Studio	112days	01/01/2024	06/04/2024			
25	REST API	72days	01/01/2024	04/09/2024			BE-2
26	Dashboard	88hrs	01/01/2024	01/15/2024		BE-2	
27	Read List	48hrs	01/16/2024	01/23/2024	26	BE-2	
28	Update Profile	48hrs	01/24/2024	01/31/2024	27	BE-2	
29	Update Slots , Pricing	48hrs	02/01/2024	02/08/2024	28	BE-2	
30	Upload Image, Video and Details	48hrs	02/09/2024	02/16/2024	29	BE-2	
31	Booking Request Management	48hrs	02/19/2024	02/26/2024	30	BE-2	
32	Review and Comment	48hrs	02/27/2024	03/05/2024	31	BE-2	
33	Search Filter	80hrs	03/06/2024	03/19/2024	32	BE-2	
34	Cart	80hrs	03/20/2024	04/02/2024	33	BE-2	



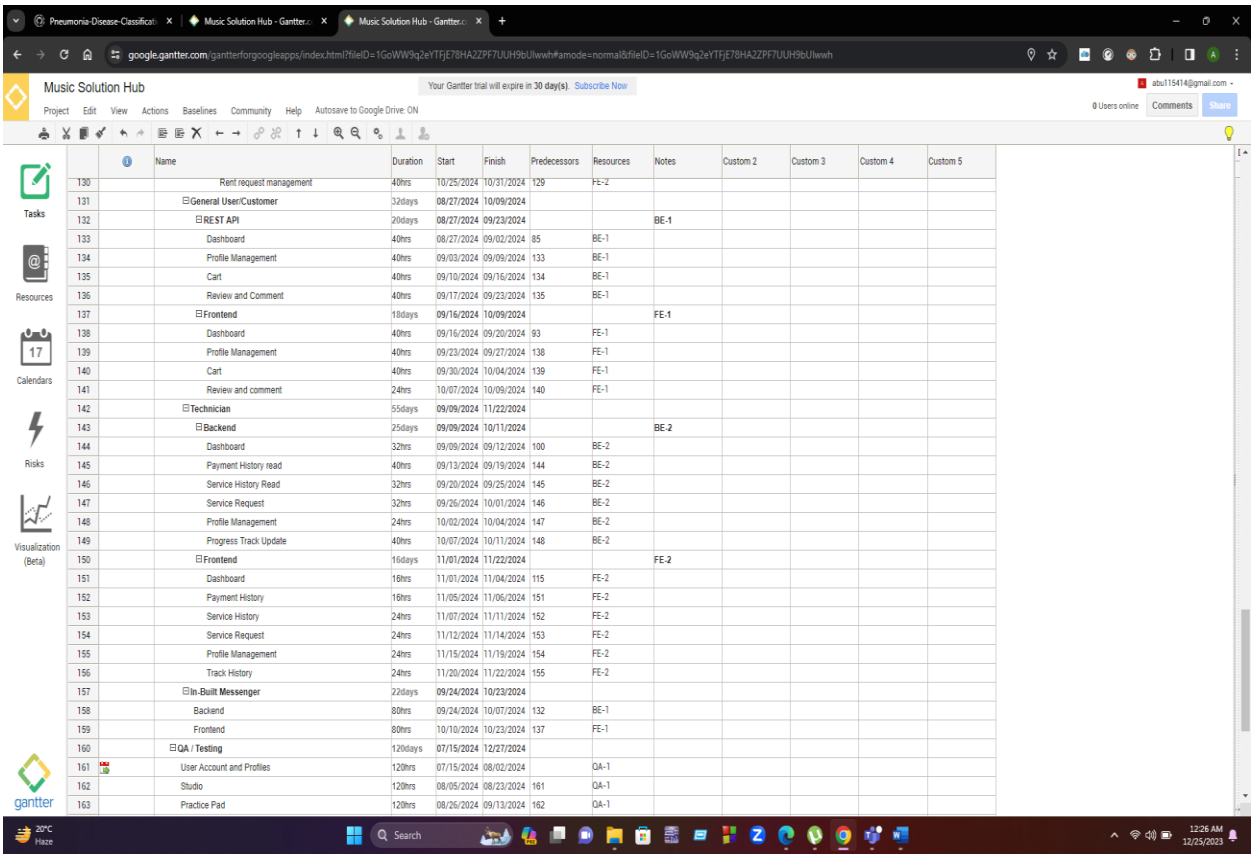
	Name	Duration	Start	Finish	Predecessors	Resources	Notes	Custom 2	Custom 3	Custom 4	Custom 5
34	Cart	80hrs	03/20/2024	04/02/2024	33	BE-2					
35	Payment Plat. API	40hrs	04/03/2024	04/09/2024	34	BE-2					
36	**Frontend**	68days	**03/01/2024**	**06/04/2024**			**FE-2**				
37	Dashboard	72hrs	03/01/2024	03/13/2024		FE-2					
38	List	40hrs	03/14/2024	03/20/2024	37	FE-2					
39	Profile Management	56hrs	03/21/2024	03/29/2024	38	FE-2					
40	Update slots , Pricing	56hrs	04/01/2024	04/09/2024	39	FE-2					
41	Cart	40hrs	04/10/2024	04/16/2024	40	FE-2					
42	Review and comment	32hrs	04/17/2024	04/22/2024	41	FE-2					
43	Upload Image , Video and details	80hrs	04/23/2024	05/06/2024	42	FE-2					
44	**Request Handling:**	21days	**05/07/2024**	**06/04/2024**							
45	Booking Management	96hrs	05/07/2024	05/22/2024	43	FE-2					
46	Payment	72hrs	05/23/2024	06/04/2024	45	FE-2					
47	**Practice Pad**	106days	**03/19/2024**	**08/13/2024**							
48	**REST API**	72days	**03/19/2024**	**06/26/2024**			**BE-1**				
49	Dashboard	88hrs	03/19/2024	04/02/2024	4	BE-1					
50	Read List	48hrs	04/03/2024	04/10/2024	49	BE-1					
51	Update Profile	48hrs	04/11/2024	04/18/2024	50	BE-1					
52	Update Slots,Pricing	48hrs	04/19/2024	04/26/2024	51	BE-1					
53	Review and Comment	48hrs	04/29/2024	05/06/2024	52	BE-1					
54	Upload Image , Video and Details	48hrs	05/07/2024	05/14/2024	53	BE-1					
55	Booking Request	48hrs	05/15/2024	05/22/2024	54	BE-1					
56	Search Filter	80hrs	05/23/2024	06/05/2024	55	BE-1					
57	Cart	80hrs	06/06/2024	06/19/2024	56	BE-1					
58	Payment Plat. API	40hrs	06/20/2024	06/26/2024	57	BE-1					
59	**Frontend**	68days	**05/10/2024**	**08/13/2024**			**FE-1**				
60	Dashboard	72hrs	05/10/2024	05/22/2024	14	FE-1					
61	List	40hrs	05/23/2024	05/29/2024	60	FE-1					
62	Profile management	56hrs	05/30/2024	06/07/2024	61	FE-1					
63	Update Slots,Pricing	56hrs	06/10/2024	06/18/2024	62	FE-1					
64	Cart	40hrs	06/19/2024	06/25/2024	63	FE-1					
65	Review and Comment	32hrs	06/26/2024	07/01/2024	64	FE-1					
66	Upload Image,video and details	80hrs	07/02/2024	07/15/2024	65	FE-1					



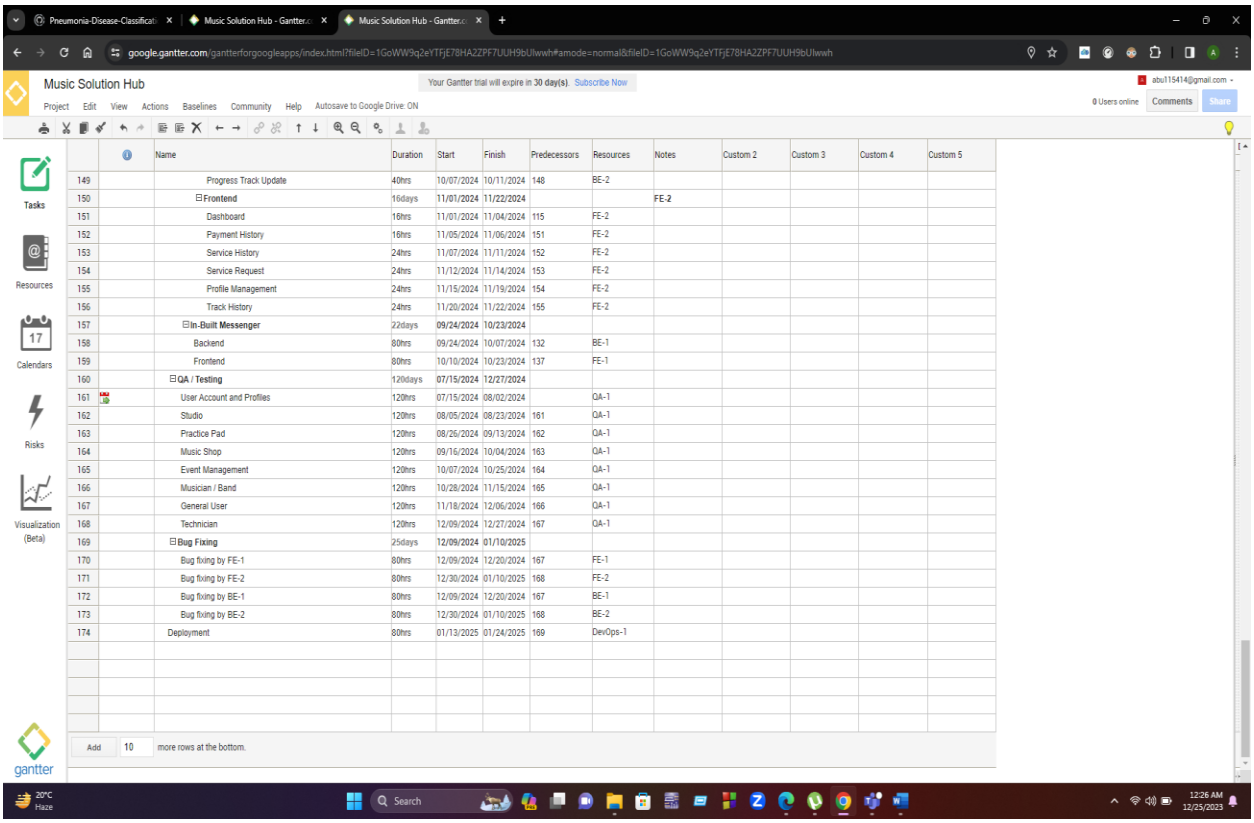
	Name	Duration	Start	Finish	Predecessors	Resources	Notes	Custom 2	Custom 3	Custom 4	Custom 5
66	Upload Image,video and details	80hrs	07/02/2024	07/15/2024	65	FE-1					
67	**Request Handling:**	21days	**07/16/2024**	**08/13/2024**							
68	Booking Management	96hrs	07/16/2024	07/31/2024	66	FE-1					
69	Payment	72hrs	08/01/2024	08/13/2024	68	FE-1					
70	**Music Shop**	83days	**04/10/2024**	**08/02/2024**							
71	**REST API**	47days	**04/10/2024**	**06/13/2024**			**BE-2**				
72	Read List	24hrs	04/10/2024	04/12/2024	25	BE-2					
73	Search Filter	80hrs	04/15/2024	04/26/2024	72	BE-2					
74	CRUD on Equipments	80hrs	04/29/2024	05/10/2024	73	BE-2					
75	Dashboard	64hrs	05/13/2024	05/22/2024	74	BE-2					
76	Order management	48hrs	05/23/2024	05/30/2024	75	BE-2					
77	Payment	80hrs	05/31/2024	06/13/2024	76	BE-2					
78	**Frontend**	43days	**06/05/2024**	**08/02/2024**			**FE-2**				
79	List of Shops	40hrs	06/05/2024	06/11/2024	36	FE-2					
80	CRUD options for Equipments	80hrs	06/12/2024	06/25/2024	79	FE-2					
81	Dashboard	80hrs	06/26/2024	07/09/2024	80	FE-2					
82	Order management	80hrs	07/10/2024	07/23/2024	81	FE-2					
83	Payment	64hrs	07/24/2024	08/02/2024	82	FE-2					
84	**Event Management**	57days	**06/27/2024**	**09/13/2024**							
85	**REST API**	43days	**06/27/2024**	**08/26/2024**			**BE-1**				
86	Search Filter	80hrs	06/27/2024	07/10/2024	48	BE-1					
87	Dashboard	40hrs	07/11/2024	07/17/2024	86	BE-1					
88	**Launch Event**	10days	**07/18/2024**	**07/31/2024**							
89	Ticket and Pricing Setup	80hrs	07/18/2024	07/31/2024	87	BE-1					
90	Cart	40hrs	08/01/2024	08/07/2024	89	BE-1					
91	Event List	40hrs	08/08/2024	08/14/2024	90	BE-1					
92	Ticket and Setup	64hrs	08/15/2024	08/26/2024	91	BE-1					
93	**Frontend**	23days	**08/14/2024**	**09/13/2024**			**FE-1**				
94	Event List	24hrs	08/14/2024	08/16/2024	59	FE-1					
95	Dashboard	40hrs	08/19/2024	08/23/2024	94	FE-1					
96	Cart	40hrs	08/26/2024	08/30/2024	95	FE-1					
97	**Launch Event**	10days	**09/02/2024**	**09/13/2024**							
98	Ticket and Setup	80hrs	09/02/2024	09/13/2024	96	FE-1					



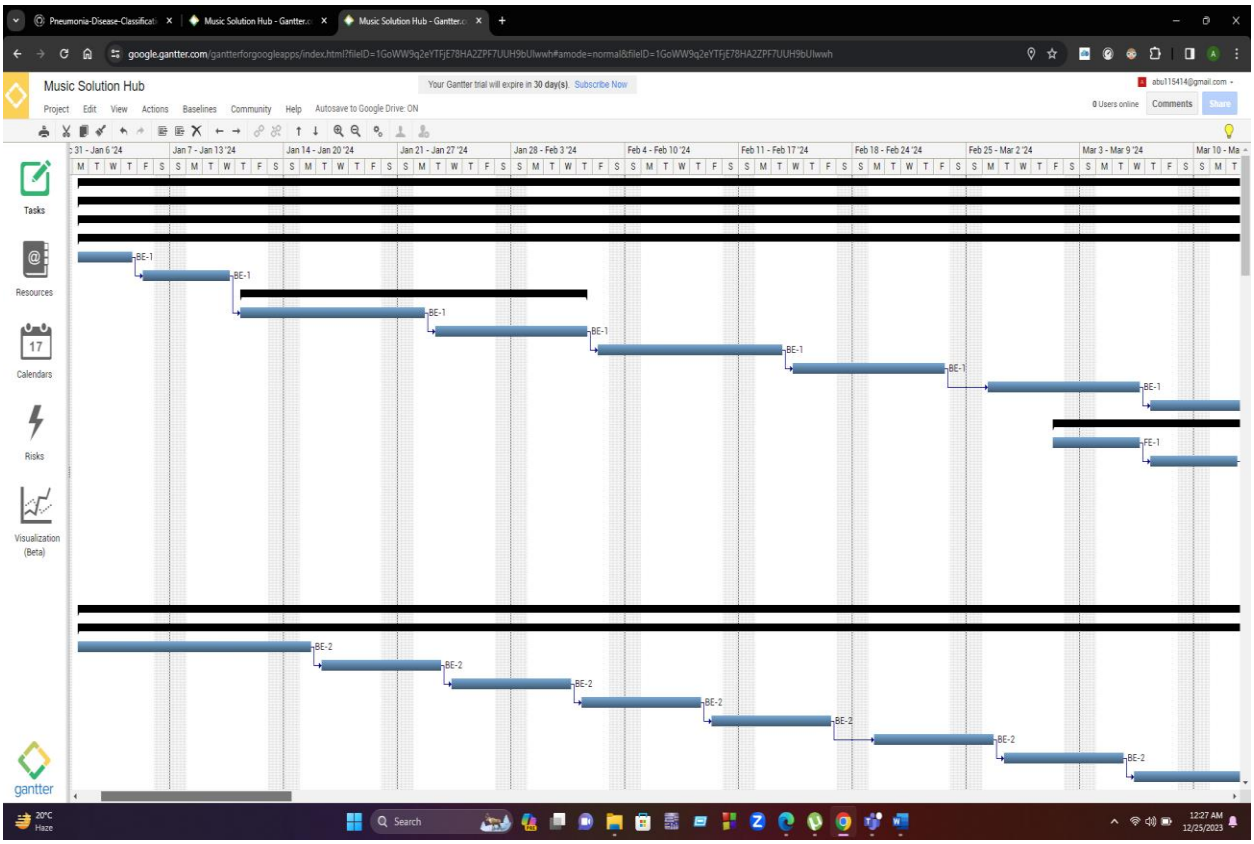
	Name	Duration	Start	Finish	Predecessors	Resources	Notes	Custom 2	Custom 3	Custom 4	Custom 5
97	**Launch Event**	10days	**09/02/2024**	**09/13/2024**							
98	Ticket and Setup	80hrs	09/02/2024	09/13/2024	96	FE-1					
99	**Musician/Band**	100days	**06/14/2024**	**10/31/2024**							
100	**REST API**	61days	**06/14/2024**	**09/06/2024**			**BE-2**				
101	Search Filter	24hrs	06/14/2024	06/18/2024	71	BE-2					
102	Dashboard	24hrs	06/19/2024	06/21/2024	101	BE-2					
103	Profile Management	24hrs	06/24/2024	06/26/2024	102	BE-2					
104	Read List of Musician	24hrs	06/27/2024	07/01/2024	103	BE-2					
105	Upload	40hrs	07/02/2024	07/08/2024	104	BE-2					
106	List Equipment for Sell or Rent	40hrs	07/09/2024	07/15/2024	105	BE-2					
107	Tracklist	40hrs	07/16/2024	07/22/2024	106	BE-2					
108	Cart	40hrs	07/23/2024	07/29/2024	107	BE-2					
109	Booking Management	40hrs	07/30/2024	08/05/2024	108	BE-2					
110	Schedule update	40hrs	08/06/2024	08/12/2024	109	BE-2					
111	Pricing and Package	40hrs	08/13/2024	08/19/2024	110	BE-2					
112	Payment Plat. API	64hrs	08/20/2024	08/29/2024	111	BE-2					
113	Review and comment	16hrs	08/30/2024	09/02/2024	112	BE-2					
114	Rent Request Management	32hrs	09/03/2024	09/06/2024	113	BE-2					
115	**Frontend**	64days	**08/05/2024**	**10/31/2024**			**FE-2**				
116	Dashboard	24hrs	08/05/2024	08/07/2024	78	FE-2					
117	Profile Management	24hrs	08/08/2024	08/12/2024	116	FE-2					
118	See List of musician	24hrs	08/13/2024	08/15/2024	117	FE-2					
119	Upload (image,video,audio)	48hrs	08/16/2024	08/23/2024	118	FE-2					
120	List Equipment for Sell or Rent	80hrs	08/26/2024	09/06/2024	119	FE-2					
121	Cart	24hrs	09/09/2024	09/11/2024	120	FE-2					
122	Review and Comment	24hrs	09/12/2024	09/16/2024	121	FE-2					
123	Rented and Sold Equipment Track	64hrs	09/17/2024	09/26/2024	122	FE-2					
124	**Request Handling**	25days	**09/27/2024**	**10/31/2024**							
125	Booking Management	32hrs	09/27/2024	10/02/2024	123	FE-2					
126	Lesson	48hrs	10/03/2024	10/10/2024	125	FE-2					
127	Schedule update	32hrs	10/11/2024	10/16/2024	126	FE-2					
128	Pricing	16hrs	10/17/2024	10/18/2024	127	FE-2					
129	Payment	32hrs	10/21/2024	10/24/2024	128	FE-2					
130	Rent request management	40hrs	10/25/2024	10/31/2024	129	FE-2					

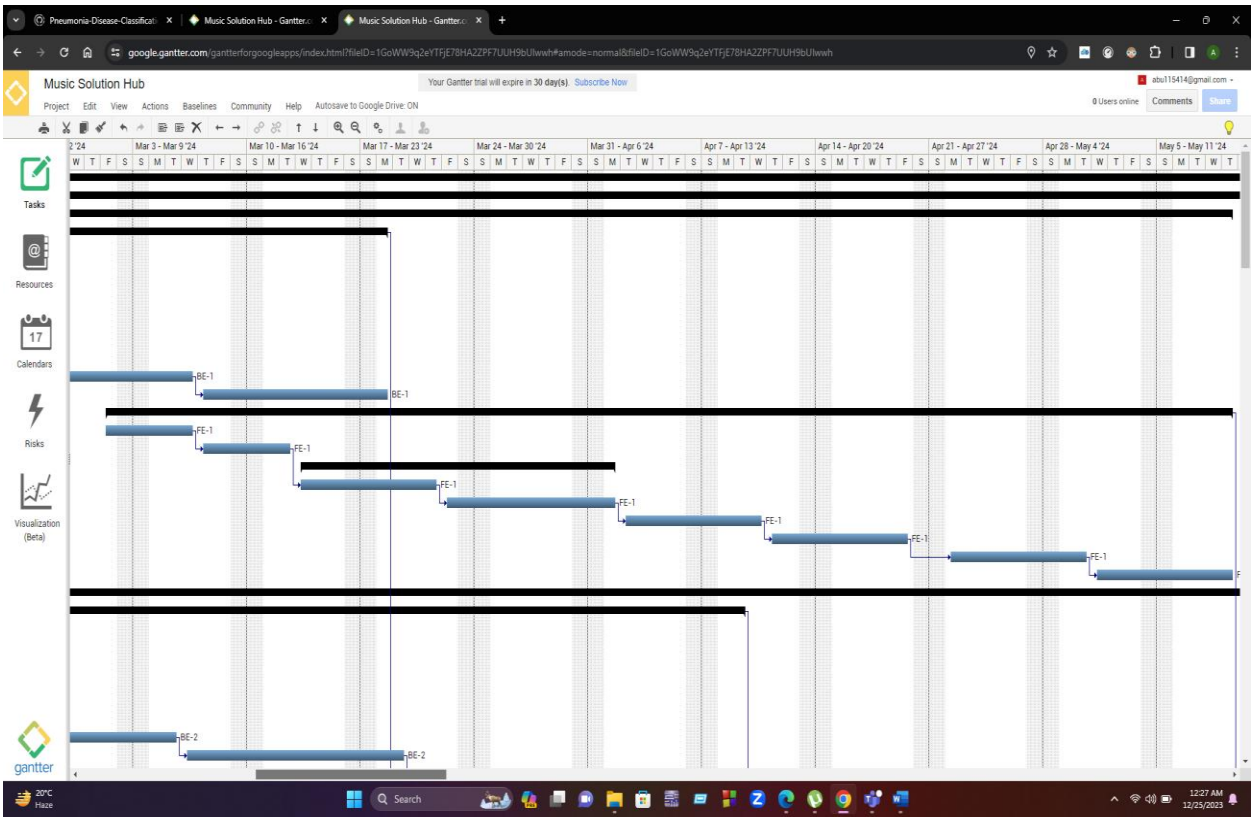


	Name	Duration	Start	Finish	Predecessors	Resources	Notes	Custom 2	Custom 3	Custom 4	Custom 5
130	Rent request management	40hrs	10/25/2024	10/31/2024	129	FE-2					
131	**General User/Customer**	32days	**08/27/2024**	**10/09/2024**							
132	**REST API**	20days	**08/27/2024**	**09/23/2024**			**BE-1**				
133	Dashboard	40hrs	08/27/2024	09/02/2024	85	BE-1					
134	Profile Management	40hrs	09/03/2024	09/09/2024	133	BE-1					
135	Cart	40hrs	09/10/2024	09/16/2024	134	BE-1					
136	Review and Comment	40hrs	09/17/2024	09/23/2024	135	BE-1					
137	**Frontend**	18days	**09/16/2024**	**10/09/2024**			**FE-1**				
138	Dashboard	40hrs	09/16/2024	09/20/2024	93	FE-1					
139	Profile Management	40hrs	09/23/2024	09/27/2024	138	FE-1					
140	Cart	40hrs	09/30/2024	10/04/2024	139	FE-1					
141	Review and comment	24hrs	10/07/2024	10/09/2024	140	FE-1					
142	**Technician**	55days	**09/09/2024**	**11/22/2024**							
143	**Backend**	25days	**09/09/2024**	**10/11/2024**			**BE-2**				
144	Dashboard	32hrs	09/09/2024	09/12/2024	100	BE-2					
145	Payment History read	40hrs	09/13/2024	09/19/2024	144	BE-2					
146	Service History Read	32hrs	09/20/2024	09/25/2024	145	BE-2					
147	Service Request	32hrs	09/26/2024	10/01/2024	146	BE-2					
148	Profile Management	24hrs	10/02/2024	10/04/2024	147	BE-2					
149	Progress Track Update	40hrs	10/07/2024	10/11/2024	148	BE-2					
150	**Frontend**	16days	**11/01/2024**	**11/22/2024**			**FE-2**				
151	Dashboard	16hrs	11/01/2024	11/04/2024	115	FE-2					
152	Payment History	16hrs	11/05/2024	11/06/2024	151	FE-2					
153	Service History	24hrs	11/07/2024	11/11/2024	152	FE-2					
154	Service Request	24hrs	11/12/2024	11/14/2024	153	FE-2					
155	Profile Management	24hrs	11/15/2024	11/19/2024	154	FE-2					
156	Track History	24hrs	11/20/2024	11/22/2024	155	FE-2					
157	**In-Built Messenger**	22days	**09/24/2024**	**10/23/2024**							
158	Backend	80hrs	09/24/2024	10/07/2024	132	BE-1					
159	Frontend	80hrs	10/10/2024	10/23/2024	137	FE-1					
160	**QA / Testing**	120days	**07/15/2024**	**12/27/2024**							
161	User Account and Profiles	120hrs	07/15/2024	08/02/2024		QA-1					
162	Studio	120hrs	08/05/2024	08/23/2024	161	QA-1					
163	Practice Pad	120hrs	08/26/2024	09/13/2024	162	QA-1					



	Name	Duration	Start	Finish	Predecessors	Resources	Notes	Custom 2	Custom 3	Custom 4	Custom 5
149	Progress Track Update	40hrs	10/07/2024	10/11/2024	148	BE-2					
150	**Frontend**	16days	**11/01/2024**	**11/22/2024**			**FE-2**				
151	Dashboard	16hrs	11/01/2024	11/04/2024	115	FE-2					
152	Payment History	16hrs	11/05/2024	11/06/2024	151	FE-2					
153	Service History	24hrs	11/07/2024	11/11/2024	152	FE-2					
154	Service Request	24hrs	11/12/2024	11/14/2024	153	FE-2					
155	Profile Management	24hrs	11/15/2024	11/19/2024	154	FE-2					
156	Track History	24hrs	11/20/2024	11/22/2024	155	FE-2					
157	**In-Built Messenger**	22days	**09/24/2024**	**10/23/2024**							
158	Backend	80hrs	09/24/2024	10/07/2024	132	BE-1					
159	Frontend	80hrs	10/10/2024	10/23/2024	137	FE-1					
160	**QA / Testing**	120days	**07/15/2024**	**12/27/2024**							
161	User Account and Profiles	120hrs	07/15/2024	08/02/2024		QA-1					
162	Studio	120hrs	08/05/2024	08/23/2024	161	QA-1					
163	Practice Pad	120hrs	08/26/2024	09/13/2024	162	QA-1					
164	Music Shop	120hrs	09/16/2024	10/04/2024	163	QA-1					
165	Event Management	120hrs	10/07/2024	10/25/2024	164	QA-1					
166	Musician / Band	120hrs	10/28/2024	11/15/2024	165	QA-1					
167	General User	120hrs	11/18/2024	12/06/2024	166	QA-1					
168	Technician	120hrs	12/09/2024	12/27/2024	167	QA-1					
169	**Bug Fixing**	25days	**12/09/2024**	**01/10/2025**							
170	Bug fixing by FE-1	80hrs	12/09/2024	12/20/2024	167	FE-1					
171	Bug fixing by FE-2	80hrs	12/30/2024	01/10/2025	168	FE-2					
172	Bug fixing by BE-1	80hrs	12/09/2024	12/20/2024	167	BE-1					
173	Bug fixing by BE-2	80hrs	12/30/2024	01/10/2025	168	BE-2					
174	Deployment	80hrs	01/13/2025	01/24/2025	169	DevOps-1					

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Project Edit View Actions Baselines Community Help Autosave to Google Drive: ON
Tasks
Resources
Calendars
Risks
Visualization (Beta)
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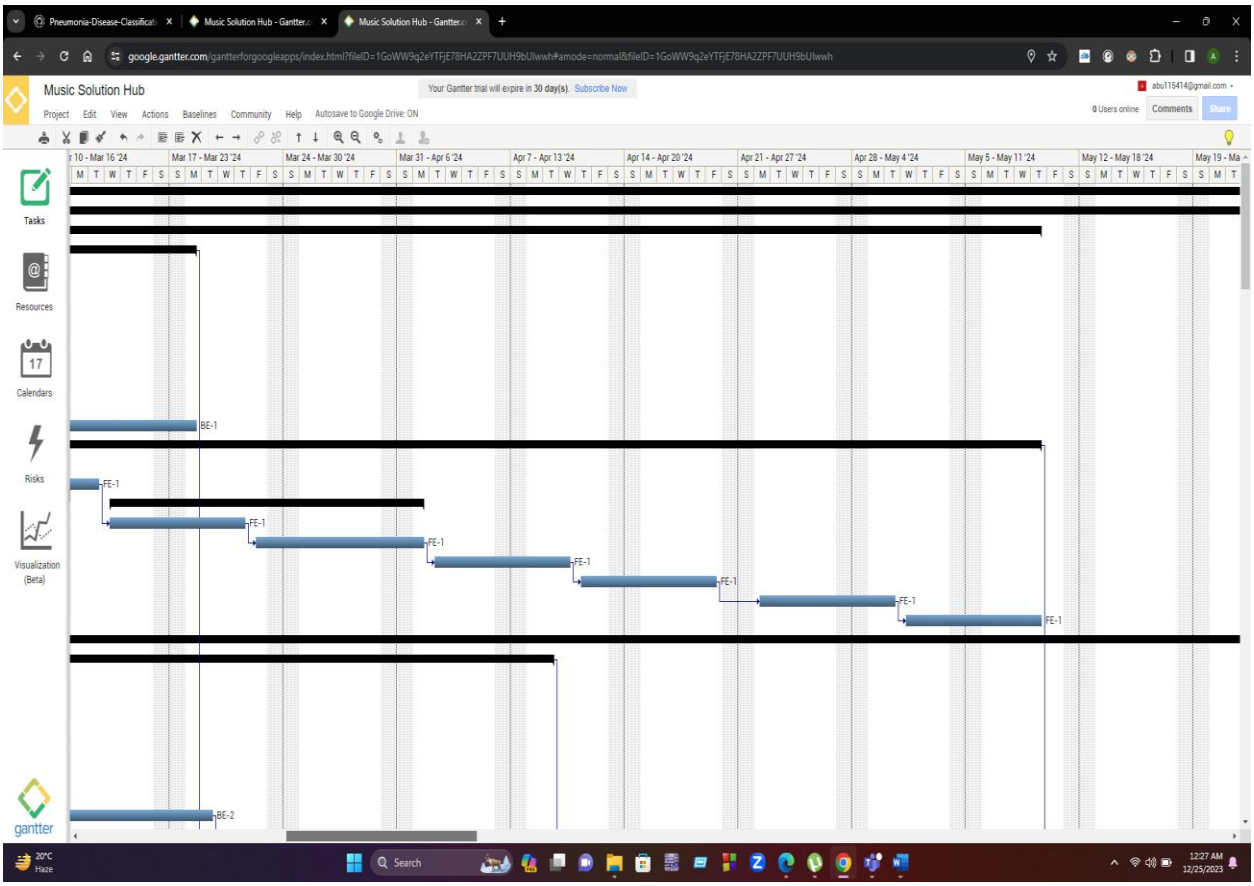
BE-1
FE-1
BE-2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Tasks
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Visualization (Beta)
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BE-1
FE-1
BE-2

8. Marketing Plan

8.1 Short-Term Marketing Plan (0-6 months):

1. Launching the product by triggering the customers. organize an online/offline launch event featuring local musicians, influencers, and key stakeholders.
2. Securing the coverage in local media outlets through press releases and targeted outreach.
3. Utilizing social media platforms like Facebook, Instagram, and YouTube to create engaging content showcasing platform features and user testimonials.
4. Running targeted social media ads and influencer collaborations to reach the right audience.
5. Offering free trials or special launch discounts to incentivize platform registration and usage.
6. Hosting workshops and webinars educating users on platform features and benefits.
7. Running a referral program to encourage existing users to invite their network.
8. Starting an active forum for discussions, Q&A, and collaboration.
9. Organizing online and offline events (jam sessions, open mic nights) to foster connections and community spirit.
10. Having partnership with local music schools and organizations for cross-promotion and engagement.

8.2 Long-Term Marketing Plan (6 months onwards):

1. Create and share valuable content like artist interviews, behind-the-scenes studio sessions, equipment reviews, and music tutorials.
2. Launch a blog featuring original articles, guest posts, and industry insights.
3. Host podcasts or live streams featuring prominent musicians and industry professionals.
4. Collaborate with music brands, instrument manufacturers, and event organizers for joint marketing initiatives.
5. Offer sponsored content opportunities on the platform to relevant brands.
6. subscription plans for musicians and businesses, and premium features.
7. Offer targeted advertising opportunities on the platform without compromising user experience.

8. Conduct regular user surveys and feedback sessions to gather insights and improve platform features.
9. Analyze user data to personalize recommendations and optimize platform functionality.
10. Stay updated on industry trends and integrate new features to retain user engagement.

8.3 Continuous Marketing Plan:

1. Organizing themed events, music competitions, and gear giveaways to keep users excited.

2. Sharing user-generated content, highlight success stories, and run interactive polls and quizzes.

3. Implementing loyalty programs with exclusive benefits and discounts for long-term users.
4. Offering responsive and helpful support to answer user queries and address concerns promptly.
5. Track key metrics like user registrations, active users, bookings, event attendance, revenue generated, and social media engagement.
6. Analyze user feedback and platform usage data to identify areas for improvement.
7. Regularly adapt and refine marketing strategies based on data insights and audience response.

9. Cost and Profit Analysis

9.1 Cost Analysis:

Total Project Timeline Estimation: 9 months and 10 days = 2240 Hours (working)

Resource Estimation: in BDT

We will use the following resources for this project:

1. Server = 2,00,000
2. Computer = 1,00,000*5 = 5,00,000
3. Internet connection & communication 80,000 + 40,000=120,000
4. Food 5,000*8 + 3,500 = 43,500
5. Generator = 3,00,000

Total cost is = 1,163,500 Taka

Total Cost Estimation:

Total resource cost = 1,163,500
Marketing cost= 50,000

- Employee's salary:

I will allocate 2 Frontend Engineer, 2 Backend Engineer 1 Quality Assurance, 1 DevOps for the following project.

Frontend Hourly wage = 800BDT and Works 8 hours a day.

Backend Developer Hourly Wage = 900BDT and Works 8 Hours a day.

Quality Assurance Hourly Wage = 500BDT and Works 8 Hours a day.

DevOps Hourly Wage = 1000BDT and Works 8 hours a day

Cost of QA = (960 Hours * 500BDT) = 480000 BDT

Cost of Frontend = (1432 Hours* 2 * 800BDT) = 2291200 BDT

Cost of Backend = (3064 Hours * 900BDT) = 2757600BDT

Cost of DevOps = (80 Hours * 1000BDT) = 80000BDT

Total Wage: (480000+2291200+2757600+80000) = 5608800BDT
Total cost = (5608800 + 1,163,500) = 6,772,300 BDT

Budget estimation:
Total budget = 6,772,300 ~ 6,800,000 BDT

9.2 Profit Analysis:

1. Commission Fee from Shops, Technician, Musician, Renting and Selling Equipment
2. Subscription
3. Advertisement
4. Workshop Hosting charges
5. Premium Features (Boosting Musician's profile)
6. Event Ticketing charges
7. Partnership with Music Schools, Instrument Manufacturer and so on
8. Collecting and Implement Valuable user insights.

10 Reference

1. Project Management File - https://drive.google.com/file/d/1-triadc4j4J1ceGrlhqNRZb6UXvNzCVQ/view?usp=drive_link
2. https://drive.google.com/file/d/1eVZWCzeIgmNRLaF1aVXmByDT0sNPqZFD/view?usp=sharing – Physical Signature