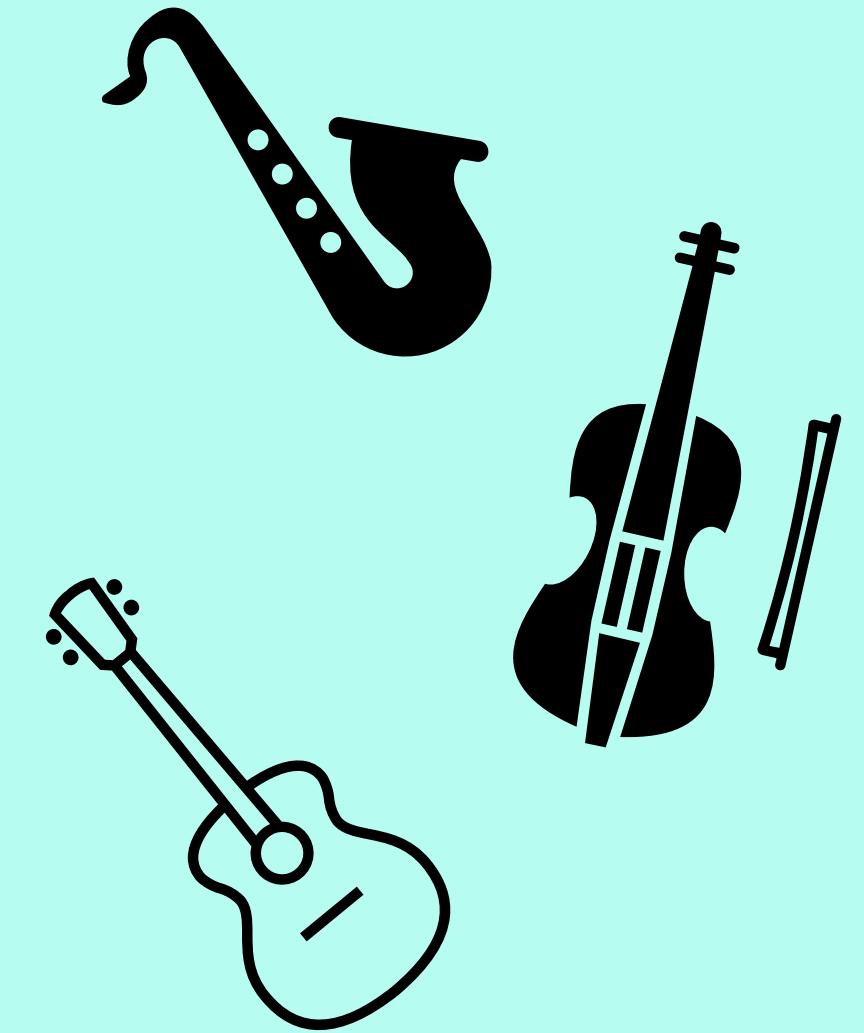


MUSICAL INSTRUMENT SELLING SYSTEM



Group Members

Group ID: 2025-Y2-S1-MLB-B6G2-07



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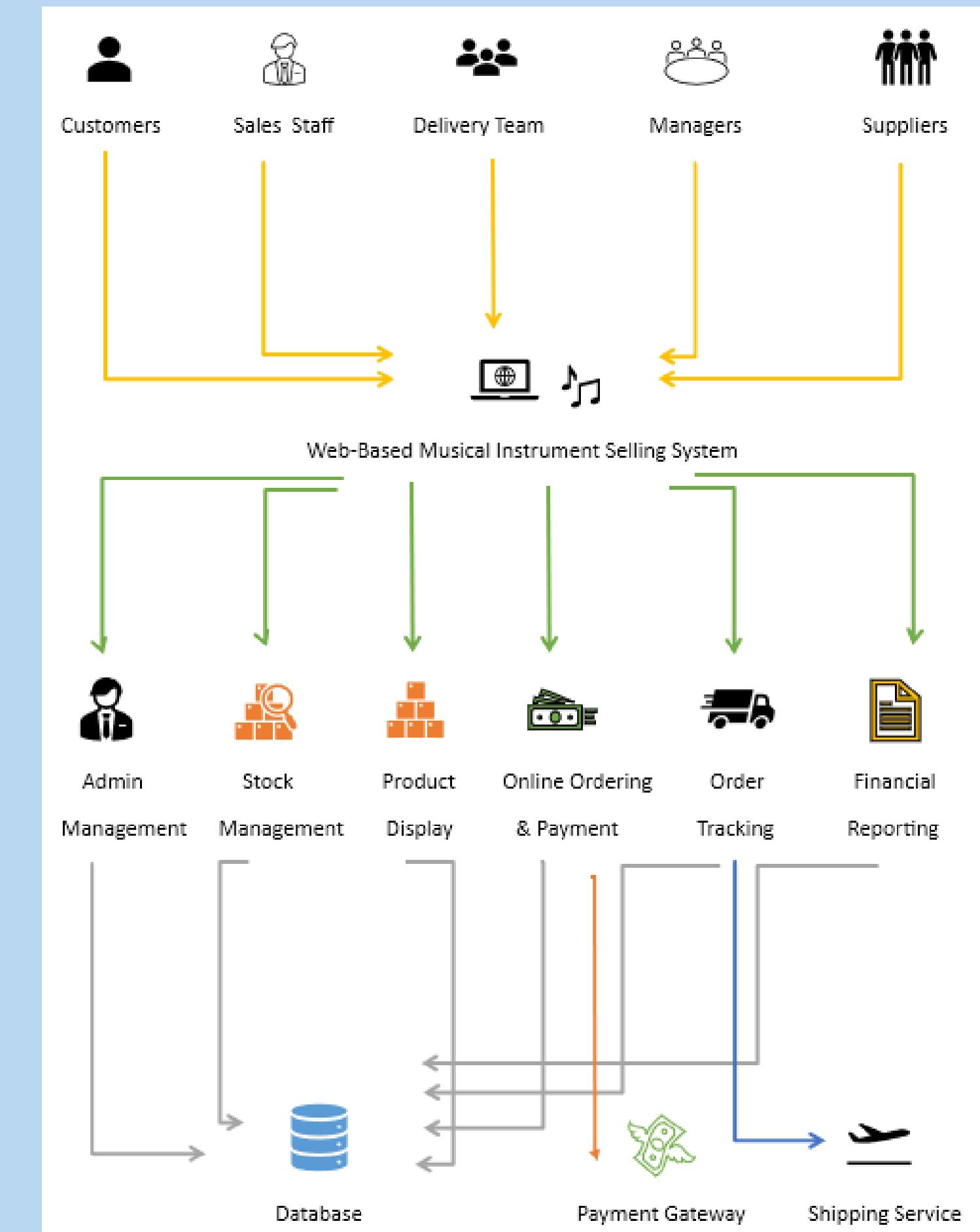
INTRODUCTION

With the growing demand for convenient online shopping, traditional methods of buying musical instruments have become time-consuming and geographically limited. The proposed musical instruments selling system will be built using modern, secure, and scalable web technologies to address these challenges.

- Customers can browse and compare instruments, view details and reviews, and place secure online orders.
- Store employees can manage inventory, update product listings, process orders, and track sales.
- Goal: Enhance customer experience and improve store efficiency



SYSTEM DIAGRAM



FUNCTIONAL REQUIREMENTS

- Admin Management- Manage users, products.
- Product Display-Customers can view instruments with details
- Online Ordering and Payment- Place orders and pay online safely.
- Stock Management- Update and track available items easily.
- Order Tracking- Check the status of their delivery.
- Financial Reporting- View income, expenses, and profit clearly.



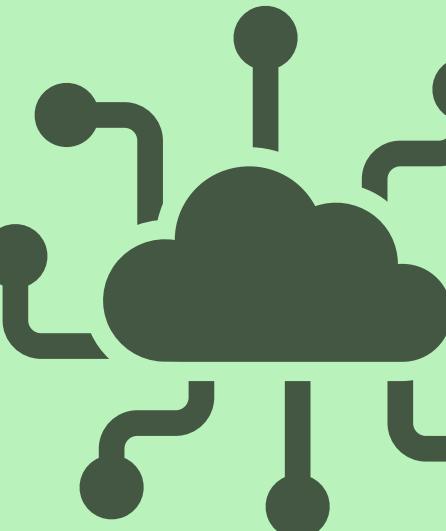
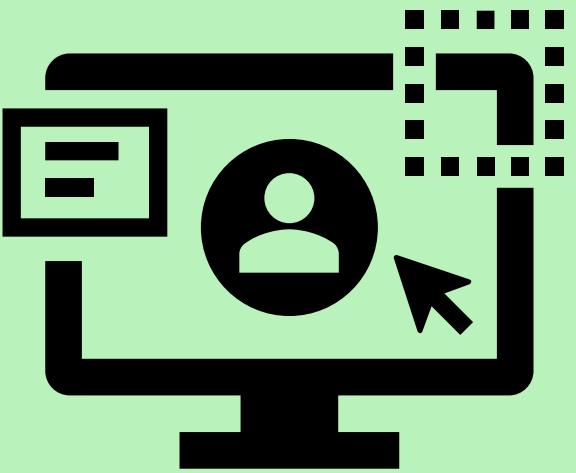
NON-FUNCTIONAL REQUIREMENTS



- Performance- Fast response(<2 sec)
- Security- Protect data
- Usability- User-friendly & mobile-responsive
- Reliability- Available all the time

MAJOR STAKEHOLDERS

- Customers- Browse products
- Sales staff- Updates stock, handles orders,
- Shop manager- Views reports, sales, and make decisions
- Delivery team- Updates and manage delivery status.



Major Functions

1. Admin Management

Who will use it?

- Managers/Administrators

What it does?

- Allows to manage staff, customers and services
- Managing system performance.

Expected outcome!

- Oversight over the full system.
- Better decisions using reports.



Major Functions

2. Product Display

Who will use it?

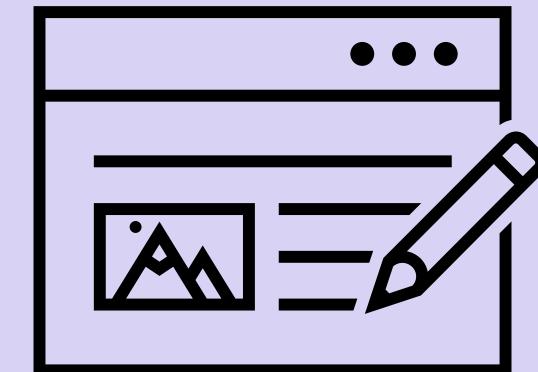
- Customers

What it does?

- Show instrument details, images, and allow filtering by type, brand, price

Expected outcome!

- Easy browsing and informed purchasing decisions



Major Functions

3. Online Ordering and Payment

Who will use it?

- Customers

What it does?

- Add items to cart and purchase via secure, multi-option payment system

Expected outcome!

- Fast, safe, and convenient transaction process



Major Functions

4. Stock Management



Who will use it?

- Employees

What it does?

- Monitor and update inventory in real-time
- Trigger low-stock alerts

Expected outcome!

- Accurate inventory control and timely restocking

Major Functions

5. Order Tracking

Who will use it?

- Customers

What it does?

- Provide real-time status updates and delivery tracking via logistics integration.

Expected outcome!

- Increased customer trust and satisfaction

Major Functions

6. Financial Reporting

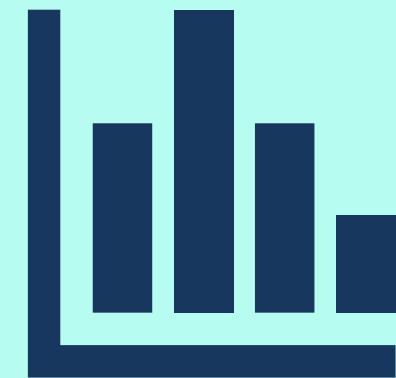


Who will use it?

- Managers/Administrators

Expected outcome!

- Data-driven decision-making and improved business performance



What it does?

- Generate detailed sales and revenue reports with performance insights

MINOR FUNCTIONS

- User Login- Secure session handling.
- Password Reset- Allows users to recover access.
- Contact Form/Refund Support- Enable to submit questions, comments.
- Email & SMS Notifications
- Order History View
- Profile Update



SYSTEM LIMITATIONS

Third-Party Issues – If the payment service has problems, our system might stop working.

Internet Needed – Since it's a web system, people without internet can't use it.

Device Compatibility – The system may not work well on older devices or outdated browsers.

Data Security Risks – If not properly protected, user data can be at risk of hacking or misuse.

High Maintenance Cost – Regular updates and bug fixes may cost time and money.

PROJECT TIMELINE



	Key Activity	Week 3	Week 4	Week 6	Week 8	Week 11	Week 13	Week 14
Design	Requirements Finalization & Planning							
	UI/UX Design							
Develop	Backend Architecture & Database Design							
	Frontend Development (Phase 1)							
Testing	Frontend Development (Phase 2)							
	Frontend Development (Phase 2)							
	Testing & Bug Fixing (Phase 1)							
Deployment	Deployment Preparation							
	Project Launch & Post-Deployment Monitoring							

CONCLUSION

- The system offers a practical solution for selling musical instruments online
- Meets the needs of:
 - Administrators** – manage products, orders, and users
 - Customers** – browse, compare, and buy instruments easily
 - Employees** – support order processing and customer service
- Includes useful features like product search, order tracking, and secure payments
- Some challenges may include third-party tools and platform limitations
- Our team is capable, with experience in system design, e-commerce, and project planning
- By following the timeline and working together, we aim to complete the system by semester's end



Thank you!