

El Kindy Project Streamlining Education Management

Coached by : Mrs. Ouerfelli Lynda
Presented by : Golden Comets



Our Team



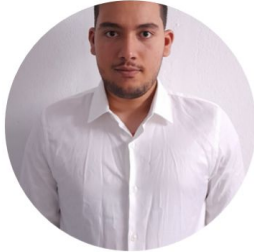
Med Khalil Hermassi



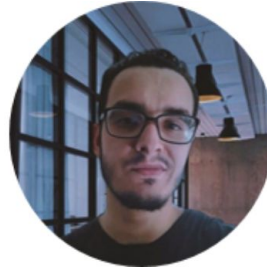
Med Aymen Ghrab



Med Laroussi Gabsi



Ayoub Hedhili



Anas Fad

Summary

Project context

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02

Problematic

Study of the existing

03



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Proposed Solution

Added value & innovation

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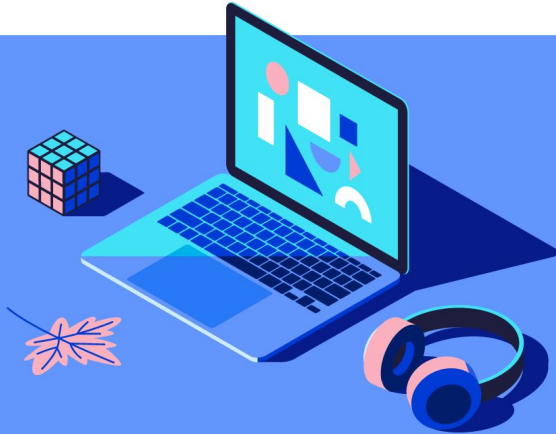
Prototype

Project Planification

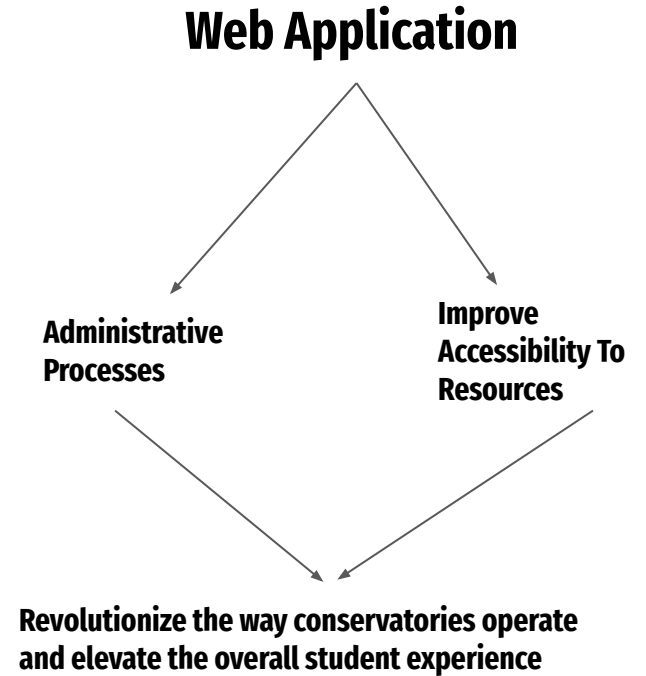
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1. Project Context



Project Context



2. Problematic



Challenges

Time and Energy Consumption:

Intensive paperwork process for administrative tasks (registrations, attendance, salary calculations, and event participation)

Limited Accessibility:

Paper-based records stored physically making them inaccessible outside the conservatory's premises.
Challenges for remote access to academic and event records for parents.



Communication Barriers:

Potential missed calls and difficulty in coordinating schedules.
Verbal agreements prone to being forgotten or misunderstood.

Lack of Real-Time Updates:

Limited real-time updates on important information.
Delayed notifications about academic performance and events.

Risk of Data Loss or Damage:

Susceptibility of paper documents to loss, damage, or deterioration.
Potential destruction of critical records in disasters.
Significant risk to operational integrity and continuity.



Inefficient Payment Processes:

Restriction to cash or checks for payments.
Inconvenience for parents preferring digital payment options.
Resulting delays in fee payments and increased administrative overhead.

Limited Scalability:

Escalating burden of paperwork as student enrollment grows.
Manual processes becoming increasingly difficult to manage.
Administrative bottlenecks and potential errors due to the volume of paperwork.

Problematic

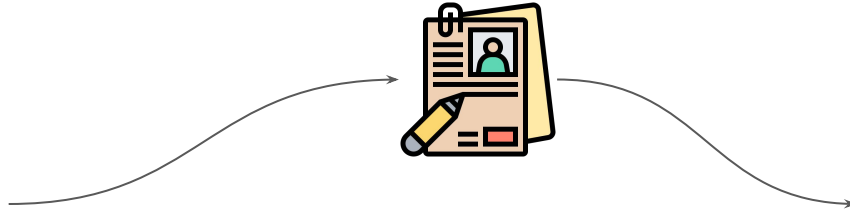
How can El kindy address these challenges in order to enhance efficiency and effectiveness in its administrative operations and overall management?



3. Study of the existing



Registration



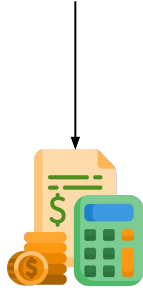
Scheduling Sessions



Or



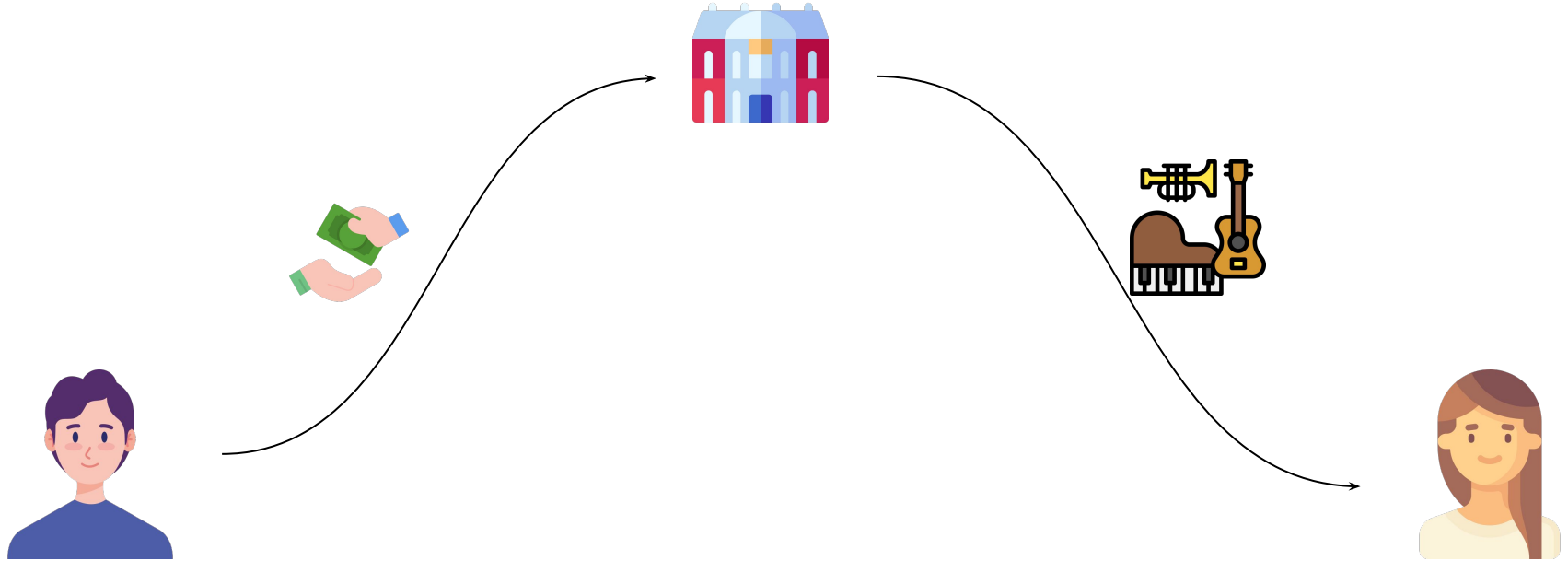
Financial Management



Or



Buying and selling Instruments



4. Proposed Solution



4. Proposed Solution

Registration & payment

Easy online registration for the clients with course payment after choosing an instrument.

Inventory Management

A tool to manage the marketplace without having to interact with buyers and sellers in person.

Event Management

Offer admins the ability to add events and make it possible for students to register online.



Lesson Scheduling

Fast matching between available students and teachers based on their free time.

Tests and grades

Provide for students and parents a simplified interface to follow their advancement online.

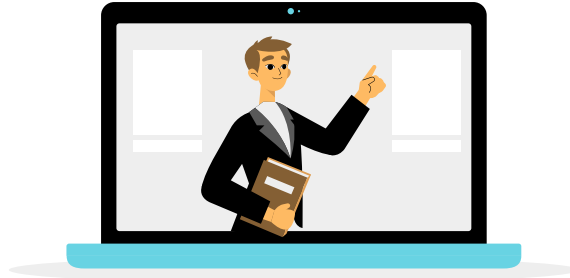
Classroom Management

Admins will be able to find all available classrooms and affect one as needed to a specific course or let it be decided by the system automatically.

4. Proposed Solution

Real-Time Notifications

The web application would provide real-time updates and notifications. (payment deadlines, upcoming lessons...)



Finance Management

Facilitate calculating teachers salaries based on worked-hours automatically.

Charts and Graphs

Visualise all data concerning the conservatory. (attendance, teachers payrolls...)

5. Added value & innovation



Event attendance rate estimation :



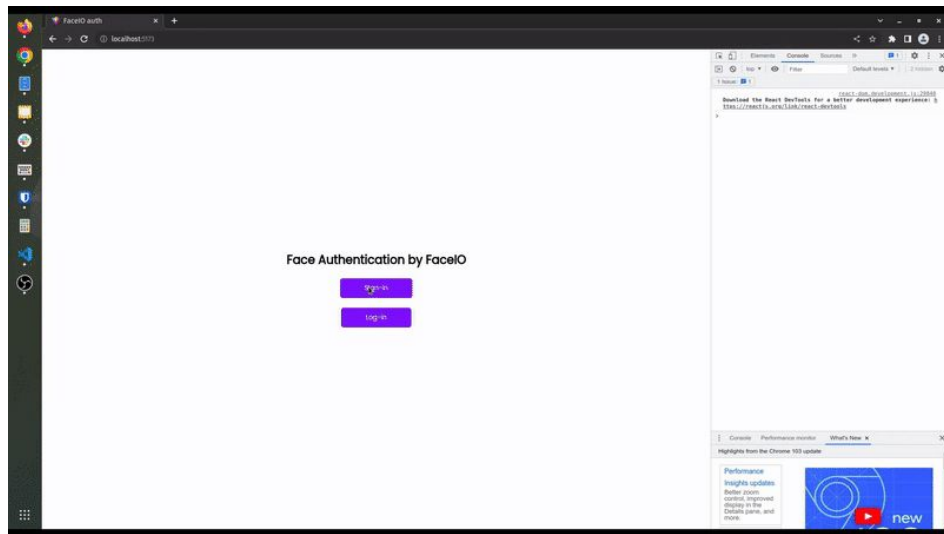
Based on saved information from the database, we will build an estimation algorithm that predicts the attendance rate of a specific event and estimates the potential profits that it will generate.

Marketplace products recommendation system :



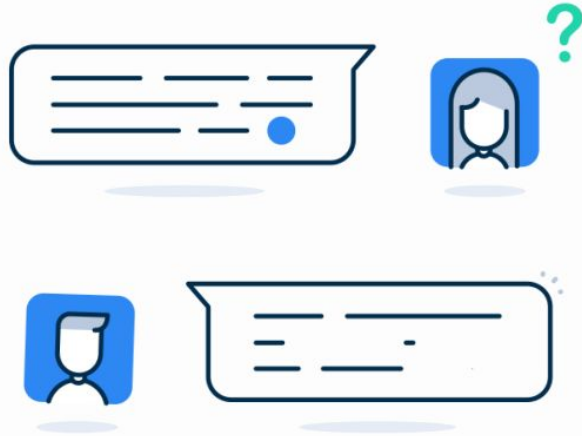
We will build a recommendation AI engine that helps the customer choosing the best product that meets their needs based on their purchase history.

Face-id authentication:



We will help clients signing in using face-id in order to add an additional security layer to the web application.

Real-Time Chat :



We will add an interface for clients in the marketplace to chat in order to arrange and facilitate purchasing instruments.

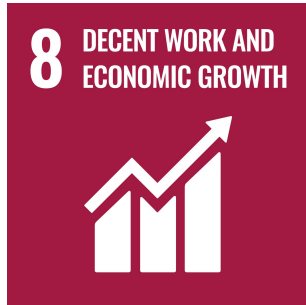
6. The Sustainable Development Goals



Sustainable Development Goals (SDGs)



By streamlining education management, we aim to enhance the learning experience for students and educators alike

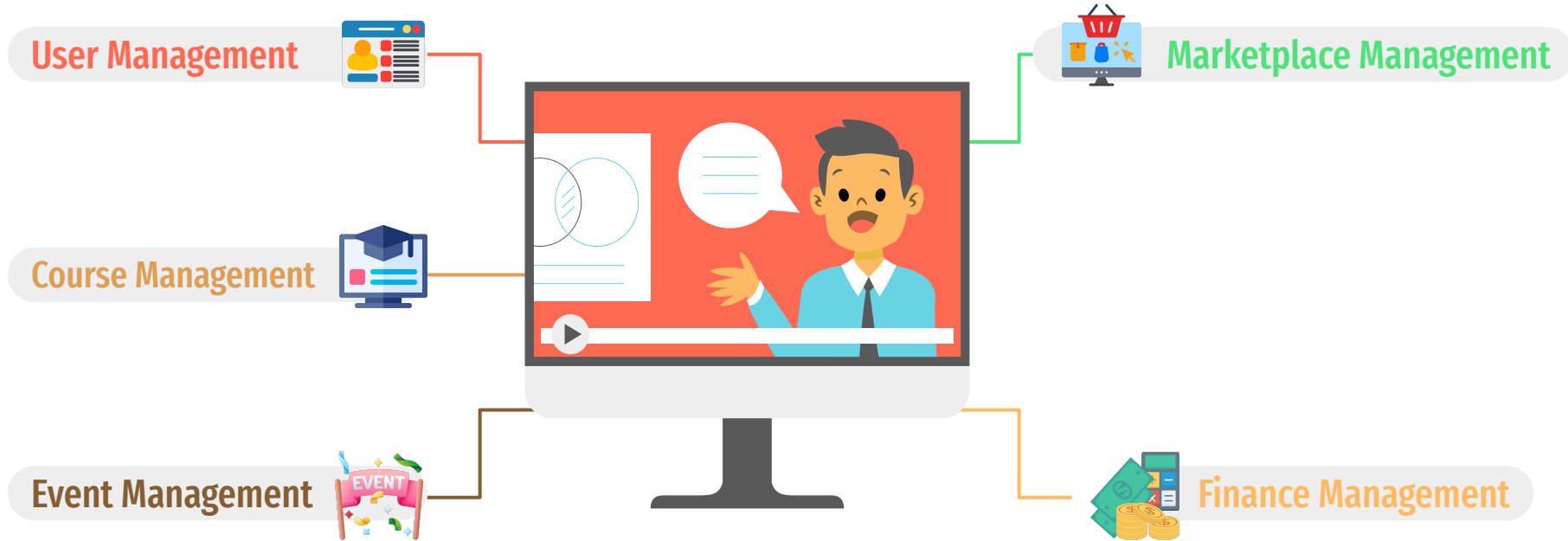


By optimizing education management processes, our project supports the creation of decent work opportunities within the education sector.

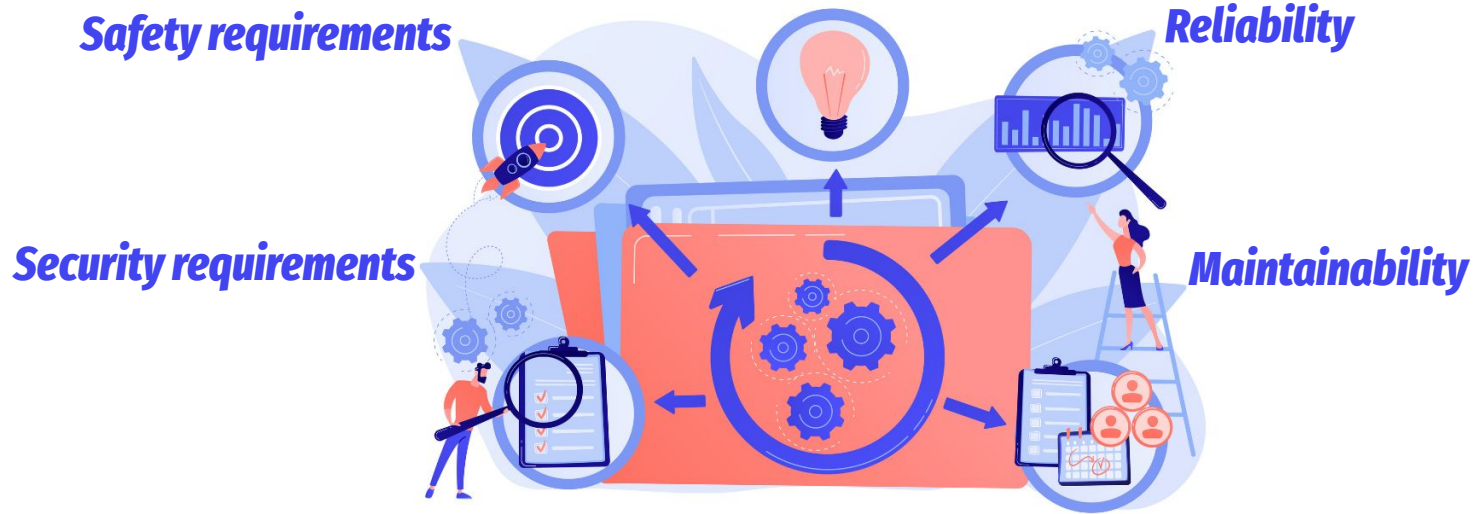
7. Technical & functional requirements



Functional Requirements :



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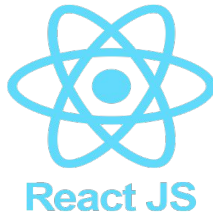


Languages :



JavaScript's long history and widespread use online bring developer benefits.

Frameworks :



React.js, a popular JavaScript library, creates dynamic user interfaces.

Express



Express.js is a popular web application framework for Node.js

Software and material tools

Code Editor



Collaborative tool



Version Control



Testing tool



DEVOPS Tools



We are using an Asus TUF with an 11th generation Intel Core i7 processor, 16GB RAM, an RTX 3050 Ti graphics card, and the Windows 11 operating system.

8. Prototype



Sign up Page



Join our conservatory and let your soul fly.



English(US) ▼

Create Account

 Login With Google

-OR-

Name

Email

Password



Level (1st,2nd,...)

Instrument (guitar, piano...)

Create Account

Already have an account? [Login Now](#)


[Privacy](#) | [Terms & Condition](#)

Login Page

☒ Remember me [Forgot password](#)

Log in

Or register now!



Membership

Join Now

Plans & Pricing

Buy your Elkindy membership and get unlimited access to our online platform instantly.

MONTHLY YEARLY

150DT /month

Monthly

Unleash the power of automation.

- ✓ Multi-step Zaps
- ✓ 3 Premium Apps
- ✓ 2 Users team

Choose plan

350DT /3months

Trimester

Advanced tools to take your work to the next level.

- ✓ Multi-step Zaps
- ✓ Unlimited Premium
- ✓ 50 Users team
- ✓ Shared Workspace

Choose plan

500DT /6mths

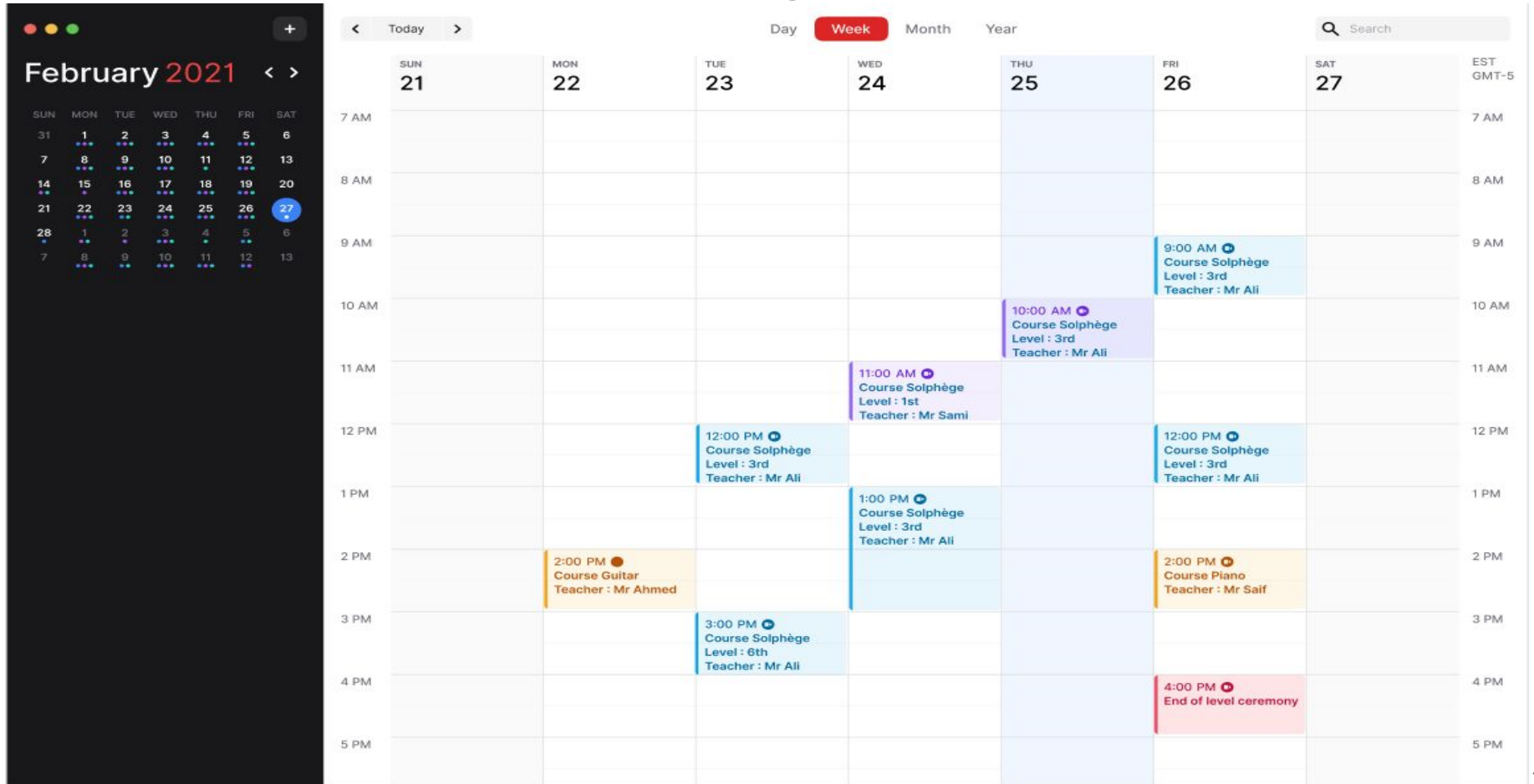
Semester

Automation plus enterprise-grade features.

- ✓ Multi-step Zap
- ✓ Unlimited Premium
- ✓ Unlimited Users Team
- ✓ Advanced Admin
- ✓ Custom Data Retention

buy

Scheduling a course



Marketplace

MARKETPLACE

Become a seller

News

Filter

Search

Help

Login

Available in 5 colorways



BRAND NEW GUITAR

A brand new guitar only used twice.
It offers very good sounds with nice colors.

Buy

INSTRUMENTS YOU MAY LIKE



PIANO
Amazing deal
750DT



VIOLON
Rarely used violon
250DT



Cello
Authentic Cello
1250DT



Electric guitar
Metallica Guitar
630DT



Clarinet
Super clarinet
460DT

My Grades

My Grades

Search...

All (56) ▾

☐

Title

—

Date _____

Teacher

Grade

Course level 1

August 2, 2013

Mr Ahmed

14/20

Guitar Course

September 24, 2017

Mr Ali

12/20

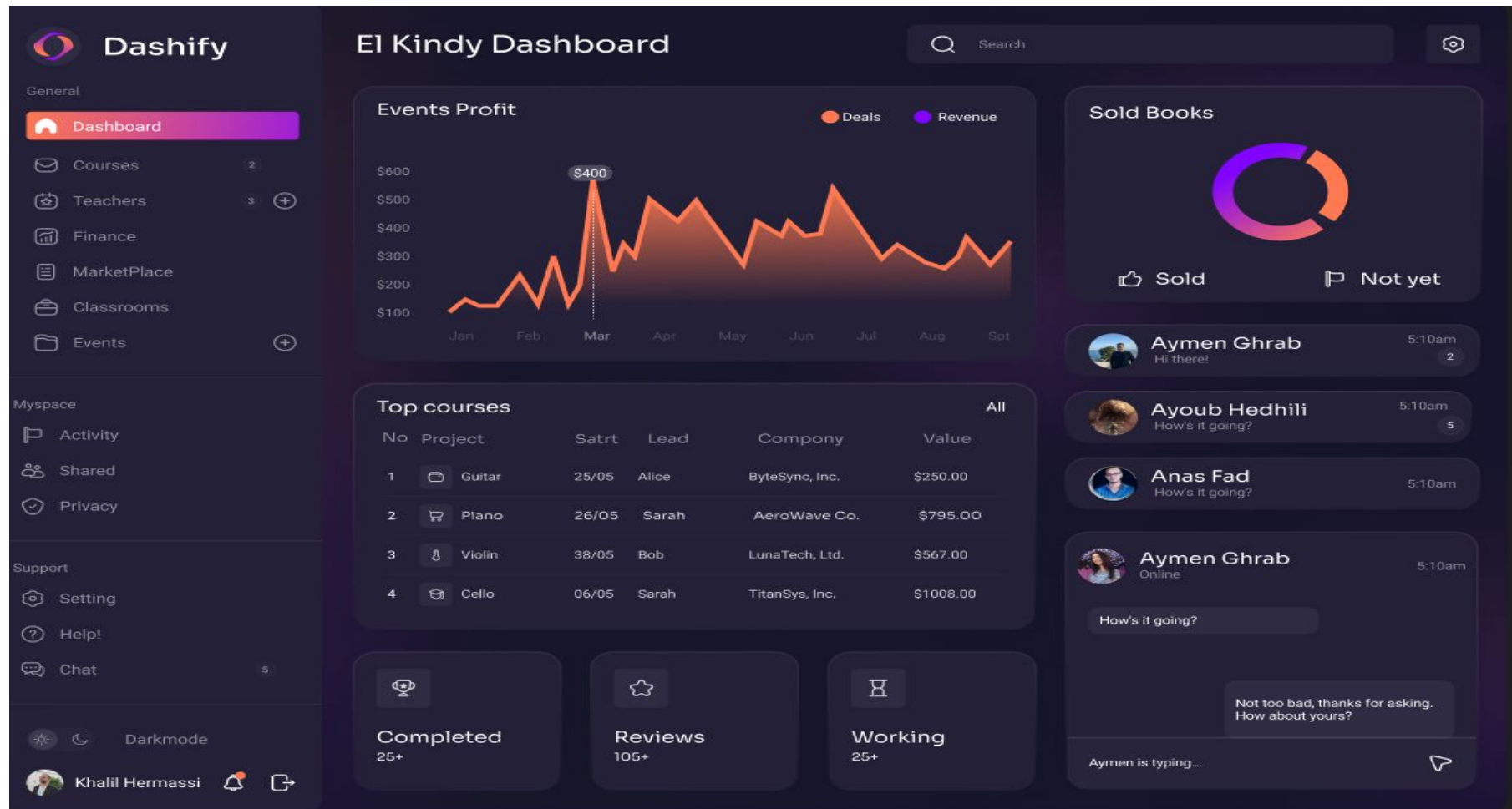
Piano Course

December 29, 2012

Mr Sami

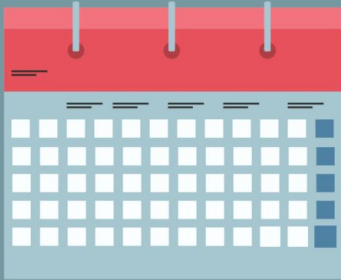
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Admin Dashboard








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9. Project planification



Sub-Modules

01	User Management		<ul style="list-style-type: none">• User Registration• User Authentication• User Profile Management
02	Course Management		<ul style="list-style-type: none">• lessons management• session management• test management
03	Event Management		<ul style="list-style-type: none">• Event scheduling• Event Registration
04	Market Place		<ul style="list-style-type: none">• Instruments marketplace• E-Book MarketPlace• Recommendation system• Real-time Chat
05	Finance		<ul style="list-style-type: none">• Subscription Management• Instructor Hour-Based Salary Calculation• Financial reporting

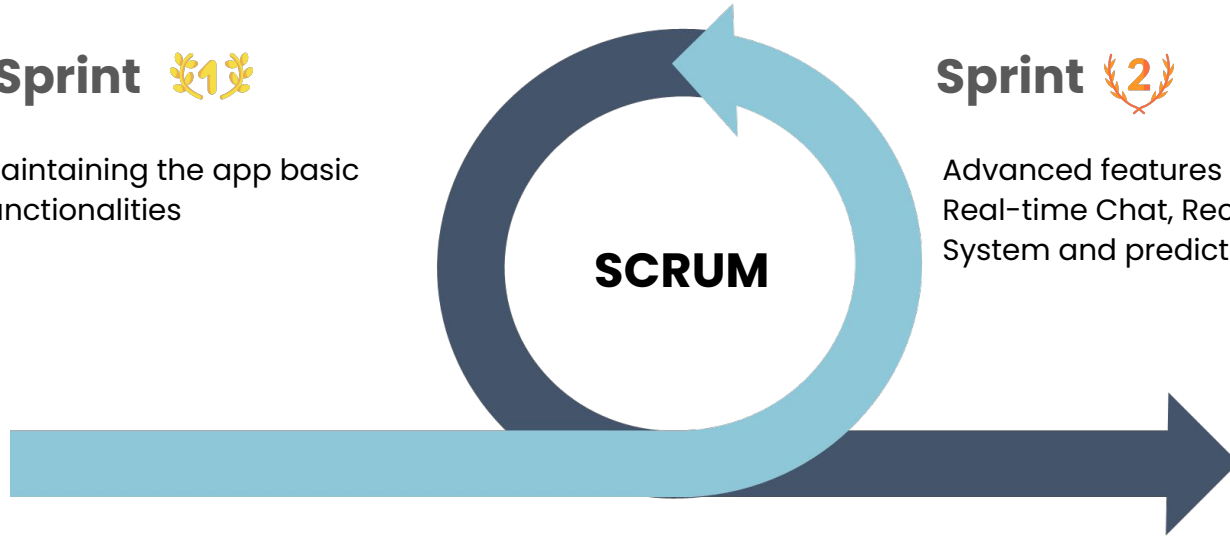
SCRUM

Sprint 🌱1🌱

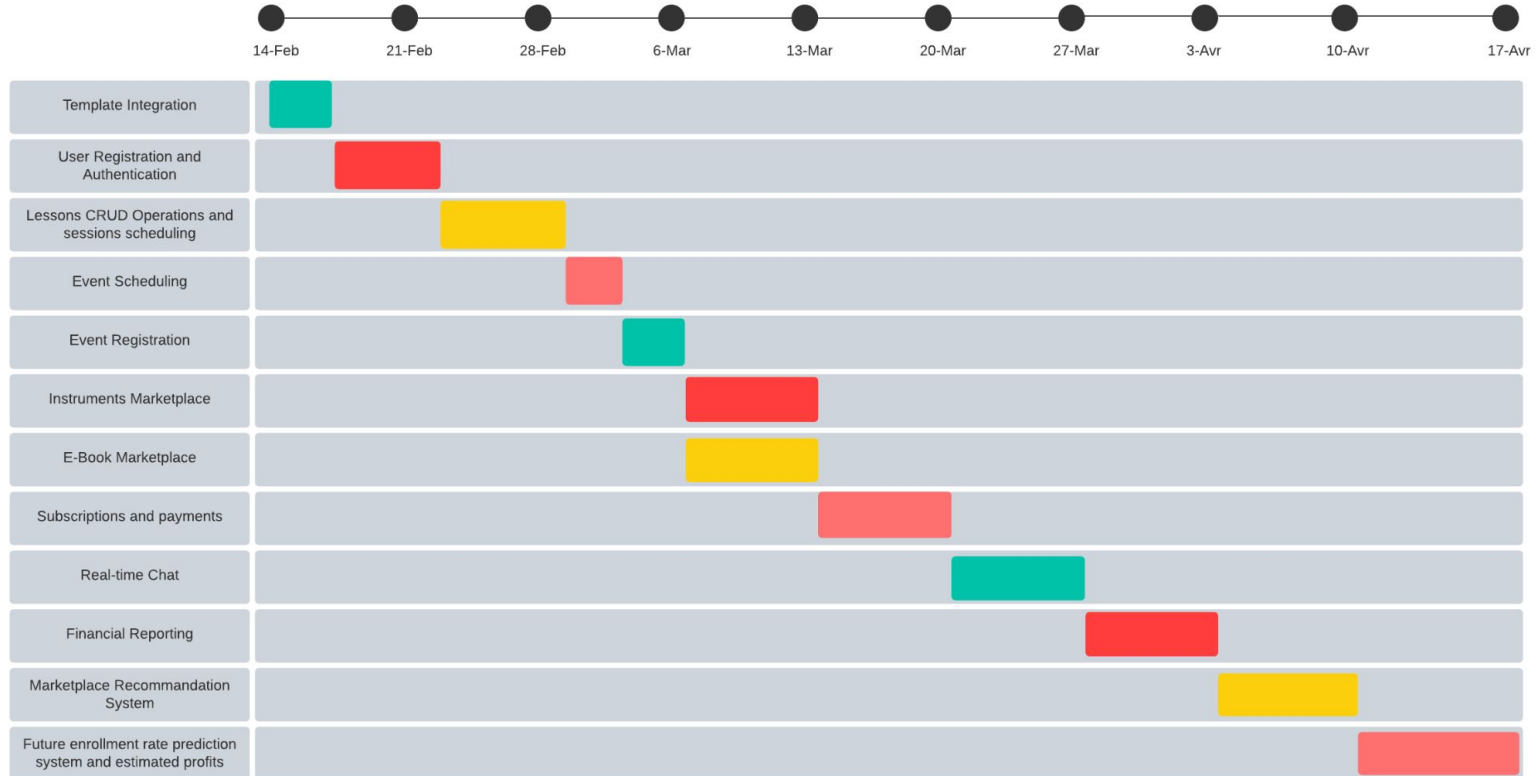
Maintaining the app basic functionalities

Sprint 🌾2🌾

Advanced features such as :
Real-time Chat, Recommendation
System and prediction System



Gantt Chart



THANKS FOR YOUR ATTENTION

