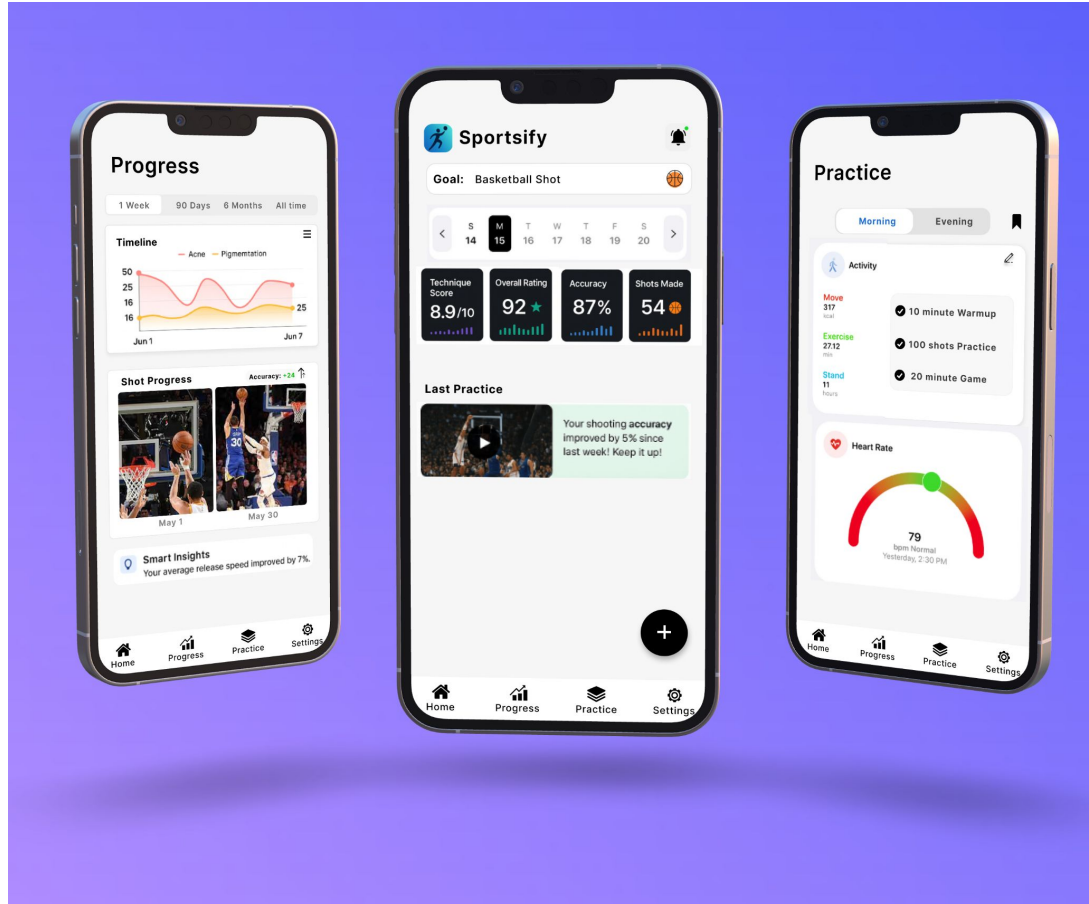# Sportify

Final Presentation

Max, Fadi, Ken, Habib

Overall concept

Sportsify allows users to take video recordings of their sports games and uses AI to track their progress.

This allows athletes to analyze their technique over time to improve faster than their peers.
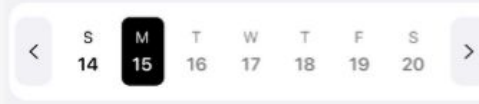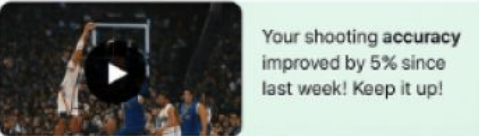
Github Repository: https://github.com/fadialsaad1/Sportifyy

Features Overview

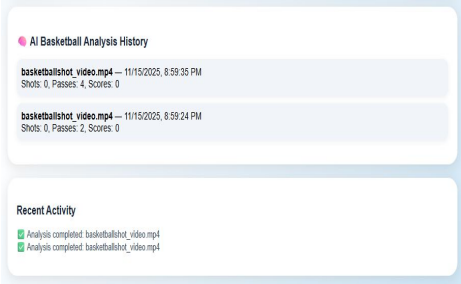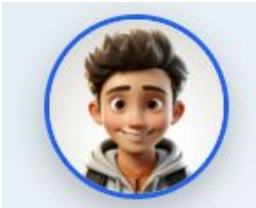| Video Capture & Upload Subsystem (Scan Page) - Mouhammadou		
Feature	**UI Components**	**Description**
	Camera Access Button	Allows users to record their practice sessions directly within the app using the device camera.
	Upload Button / File Picker	Lets users upload pre-recorded videos from their device gallery or file storage for analysis.
	Video Preview Window	Displays a thumbnail or playback preview of the recorded or uploaded video before submission.

Features Overview

AI Analysis & Feedback Subsystem (Home Page) - Max		
Feature	**UI Components**	**Description**
	<u>Snapshot display buttons</u>	Users can quickly view important stats about their progress.
	<u>User Timeline</u>	This will let users to view their daily progress
	<u>Last Practice Video</u>	Users will be able to review their past videos and glance through quick insights
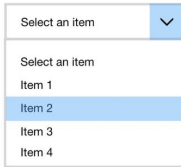
Features Overview

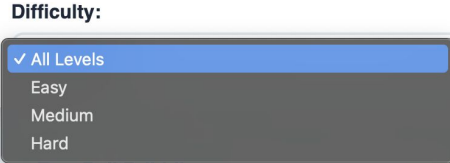| User Profiles & Progress Tracking Subsystem (Profile Page) - Fadi		
Feature	**UI Components**	**Description**
	<u>Profile Menu</u>	Stores all user videos, AI scores, and personal info.
	<u>Circle Percentage Chart</u>	Shows improvement over time using a circle chart and progress badges.
	<u>Download/Share Buttons</u>	Lets users download reports or share results with others.

Features Overview

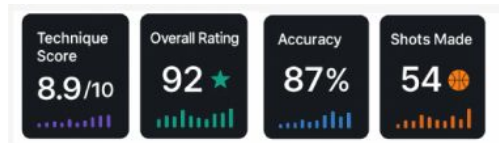| UI / Interaction & Settings Subsystem (Practice Page) - Ken		
Feature	**UI Components**	**Description**
	<u>Login and sign up</u>	The user creates there account and then they can login
	<u>Practice/drills difficulty</u>	Change the difficulty of their drills/Practice
	<u>Position Toggle</u>	Users can change the basketball position they want improve on

Working Features (Final)

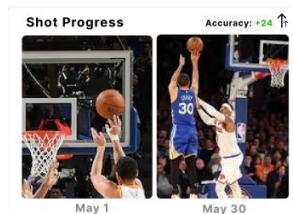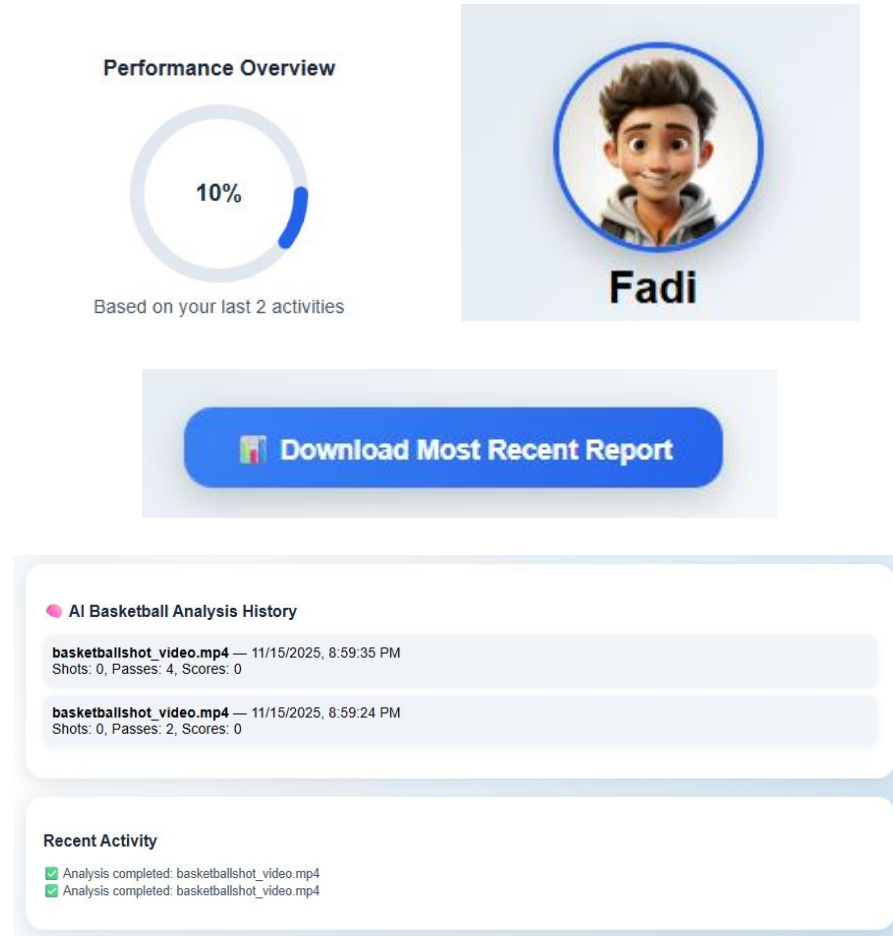| Feature	Description
Snapshot display buttons	Users can quickly view important stats about their progress.
Circle Percentage Chart	Shows improvement over time using a circle chart and progress badges.
Practice/drills difficulty	Change the difficulty of their drills/Practice
Video Preview Window	Displays a thumbnail or playback preview of the recorded or uploaded video before submission.

AI Analysis and Results (Max)

- Created the main AI video analysis engine which accepts videos of sports games and tracks number of key events.
- Funneled data from the videos to homepage for easy presentation
- Used Tensorflow libraries, pretrained object detection models.
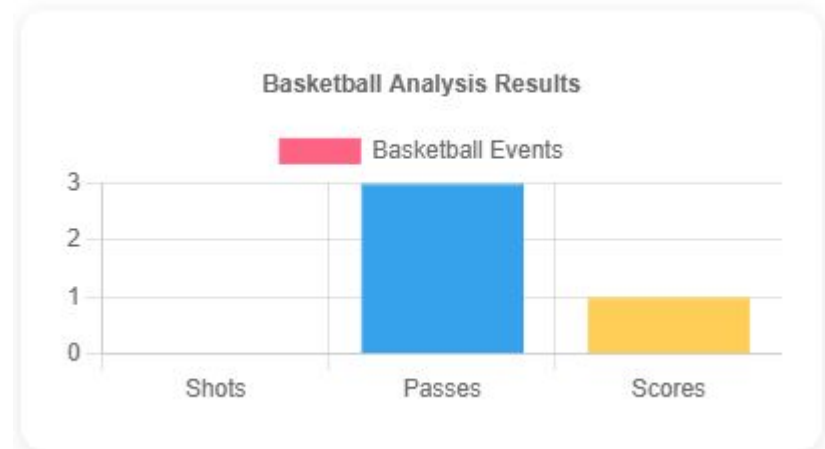
Profile Page (Fadi)

- Developed the profile layout enabling users to view their performance and activities generated from their AI analysis, providing a clear and organized overview of their progress.
- User can download their progress report as a 'text file' based on the their activities for each day.
- User is able to choose their profile picture.

Performance Overview

10%

Based on your last 2 activities

Fadi

Download Most Recent Report

🧠 AI Basketball Analysis History

basketballshot_video.mp4 — 11/15/2025, 8:59:35 PM
Shots: 0, Passes: 4, Scores: 0

basketballshot_video.mp4 — 11/15/2025, 8:59:24 PM
Shots: 0, Passes: 2, Scores: 0

Recent Activity

✅ Analysis completed: basketballshot_video.mp4
✅ Analysis completed: basketballshot_video.mp4

Practice Page (Ken)

- Created the login and signup page, Basketball Drills and the Basketball Position option.
- Basketball drills is where the user selects the difficulty of the drill and the position they want to practice.
- Basketball Position option shows what the user is currently improving on.

Progress Page (Habib)

● Created the Progress Page that displays users' improvement over time using charts, timelines, and performance summaries.

● Integrated AI-generated stats so progress updates automatically after each practice session.

● Designed a clean, consistent layout that aligns with the Home, Practice, and Profile pages.