

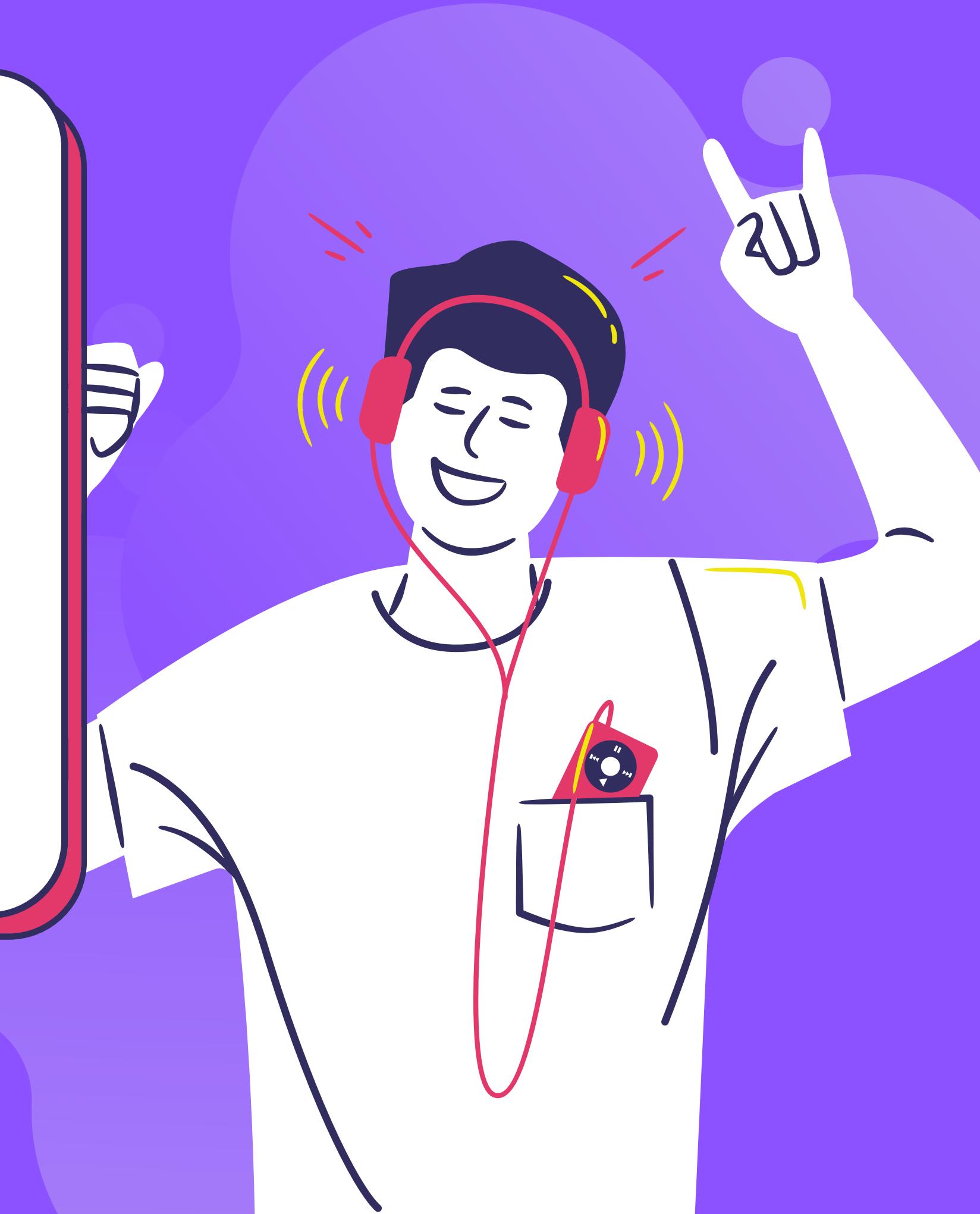


HearWeGo

Music Marketing and Predicting Platform

IN2901(IT) - **PixelPerfect**

Faculty of Information Technology
University of Moratuwa



Team Members



Shiwantha A.J.M.H.
214196X



Madusanka W.M.D
214127N



Wijesinghe W.A.D.T.
214234N



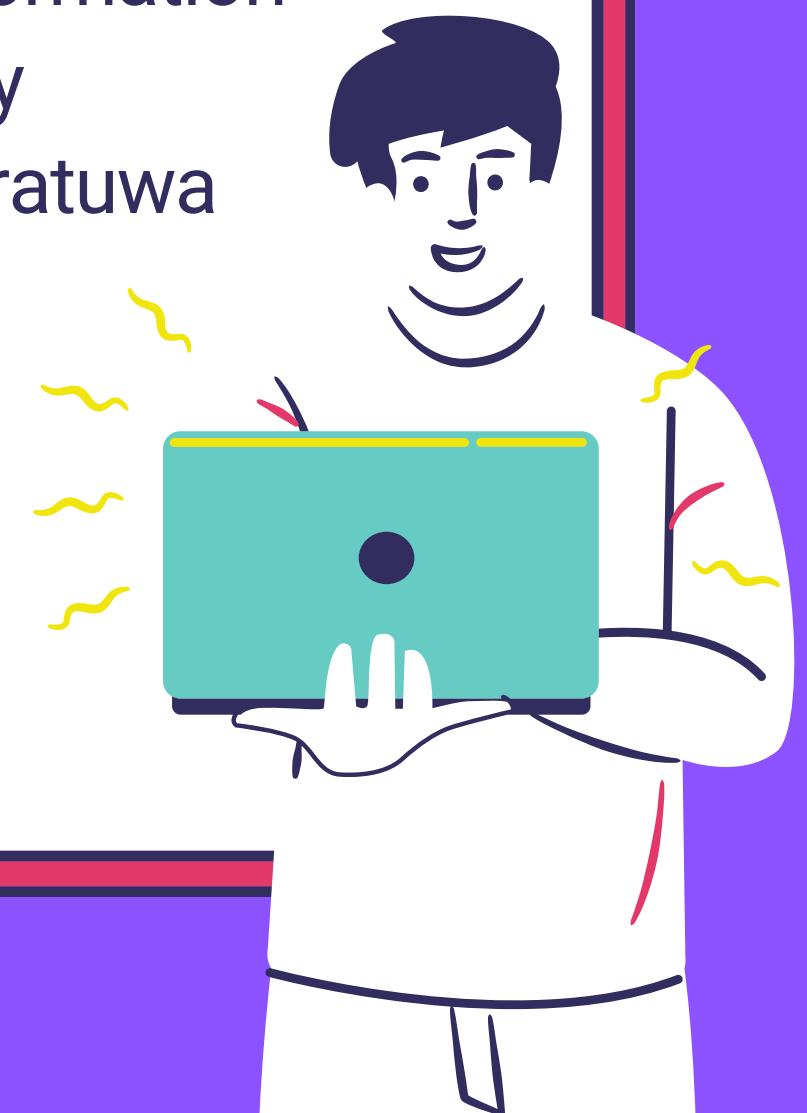
Bandara D.M.O.I
214249N



Weeraddana A.R.
214221X

Supervisor

Dr. Chaman Wijesiriwardana
Department of Information
Technology
University of Moratuwa

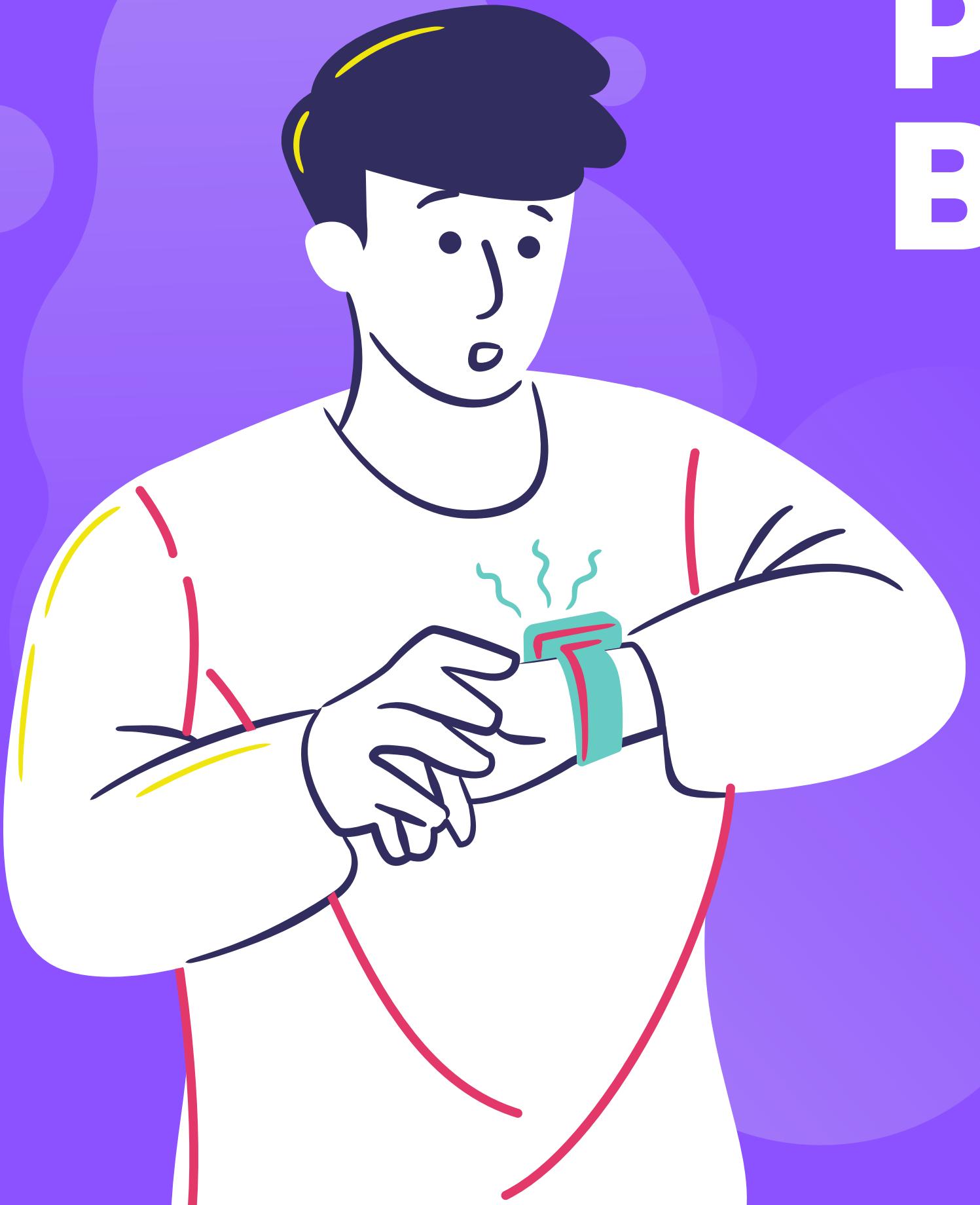


Mentor

Mr. Kulan Sachinthana
B.Sc. Computer Science
Senior Software Engineer
LSEG



PROBLEM IN BRIEF

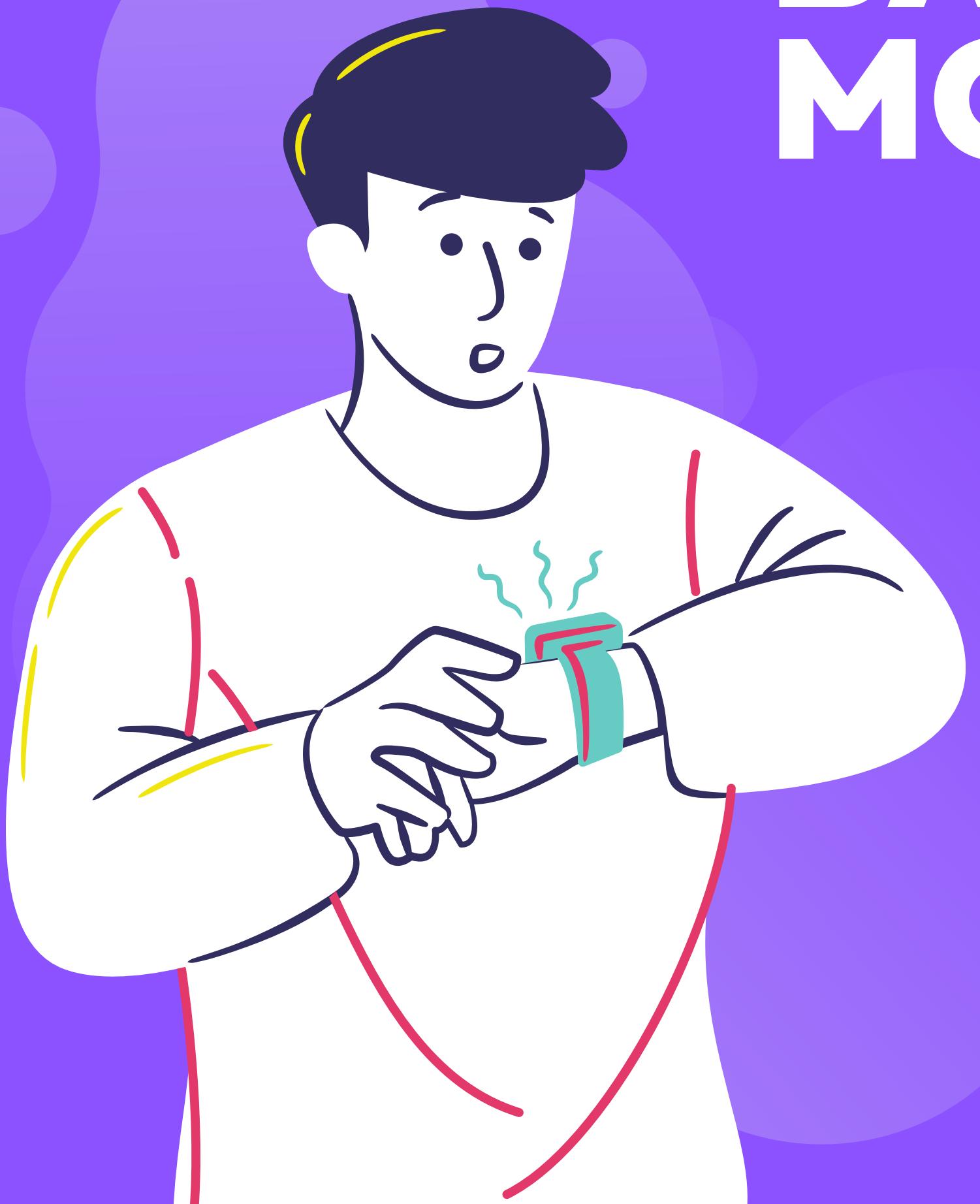


- Difficulty in managing marketing content.
- Resource wastage due to uncertainty.

Existing Software



BACKGROUND & MOTIVATION



Centralizing all essential activities that frequently done by artists

Providing an assistance to the upcoming artists to promote their music

There are no current platforms which provides all the services we intend to offer.

AIM



**Build a software platform to predict hits,
understand fan preferences, and execute
effective promotional strategies.**

“
”

Objectives

01

Predicting the popularity of a song by using musical attributes.

02

Maintaining a song catalog for artists.

03

Building exclusive fan clubs for artists.

04

Providing an event planning mechanism for artists.

05

Making a platform to sell artists merchandise and tickets.

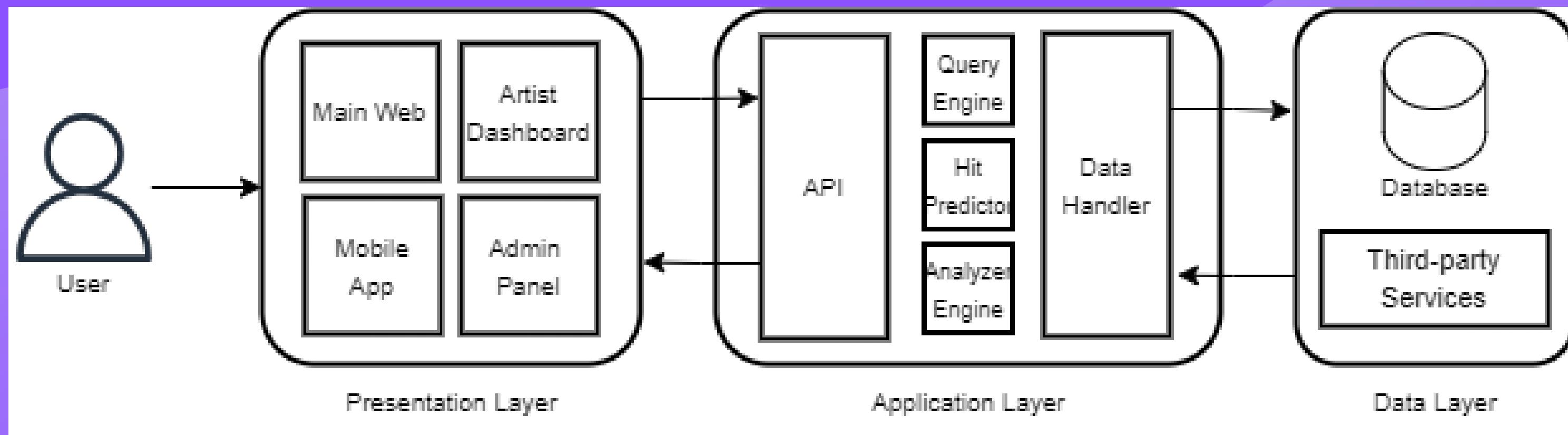
06

Providing audience analytics.

07

Providing a tool to connect with all social media and media platforms.

Proposed Solution



MAIN TECHNOLOGIES



NextJs



Express



NodeJs



MongoDB



FastAPI

OTHER TECHNOLOGIES



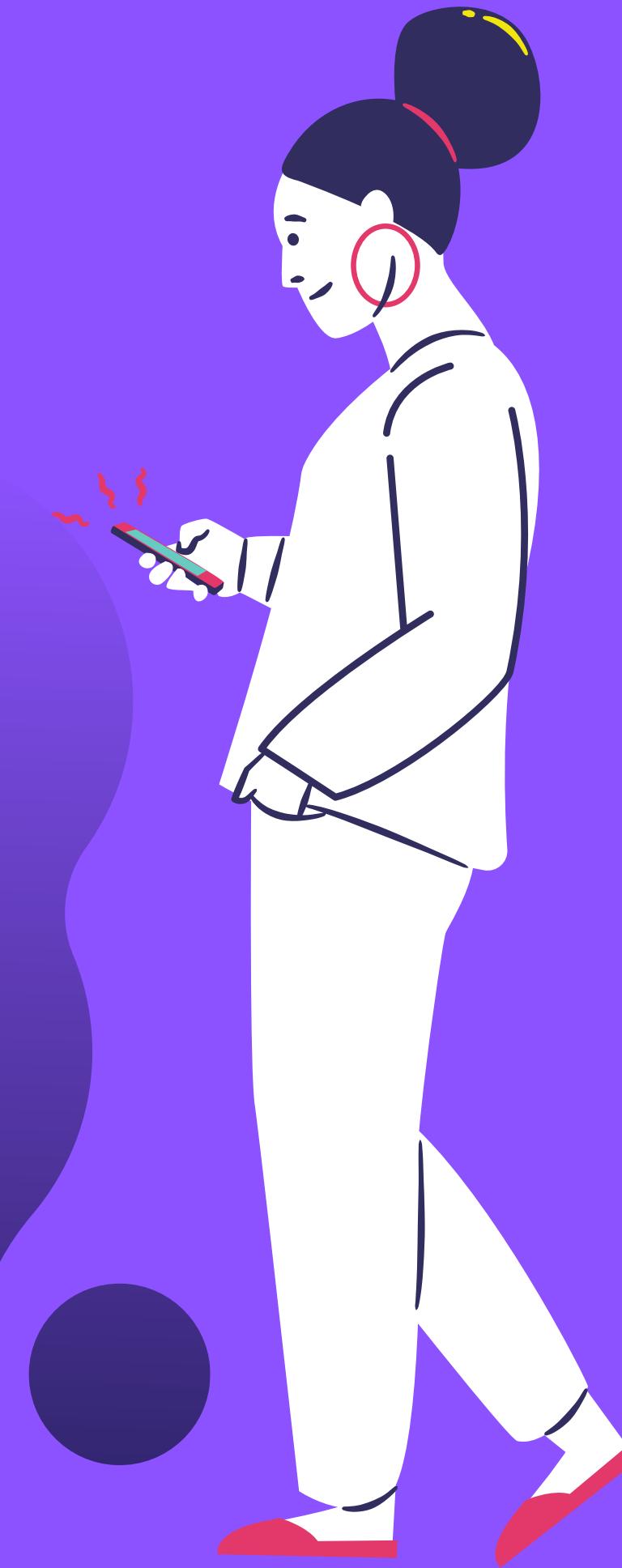
Docker



Github



AWS



OUR APPROACH



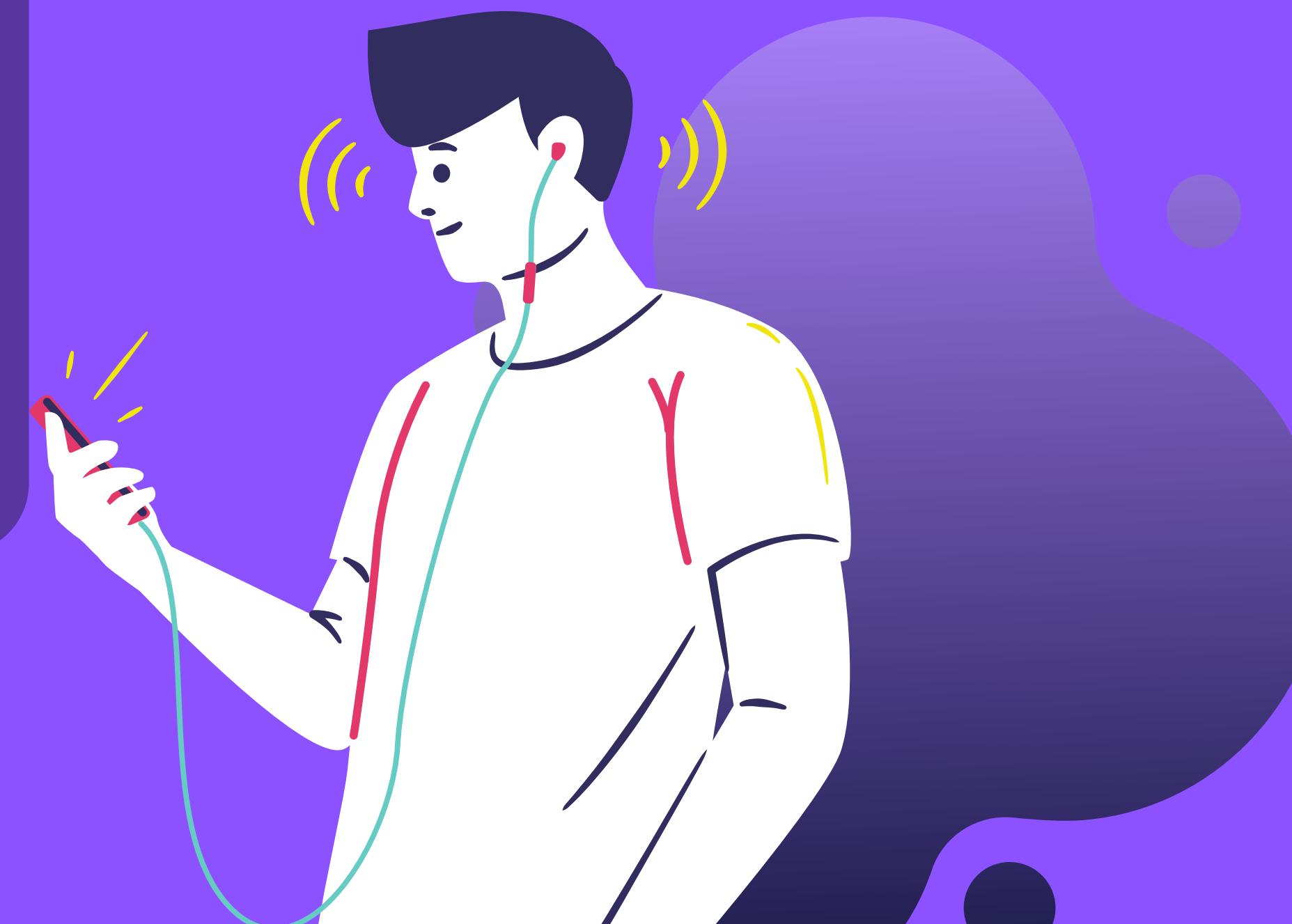
In our approach we discussed,

- System Process
- Inputs and Outputs
- Software Process Model
- Project Management Plan

Software Process Model

Agile Scrum

- Requirements meant to be evolved with the industry
- Tight Deadlines
- Large scale of the project



PROJECT MANAGEMENT PLAN



Jira

Screenshot of the Jira Software interface showing a project board for "PIX Sprint 1".

The board has three columns: TO DO, IN PROGRESS, and DONE.

TO DO:

- Basic UI Designs (HWG-4)
- Presentation (HWG-7)
- Finalize (HWG-6)

IN PROGRESS:

- Document Structure (HWG-2)
- SRS (HWG-5)

DONE:

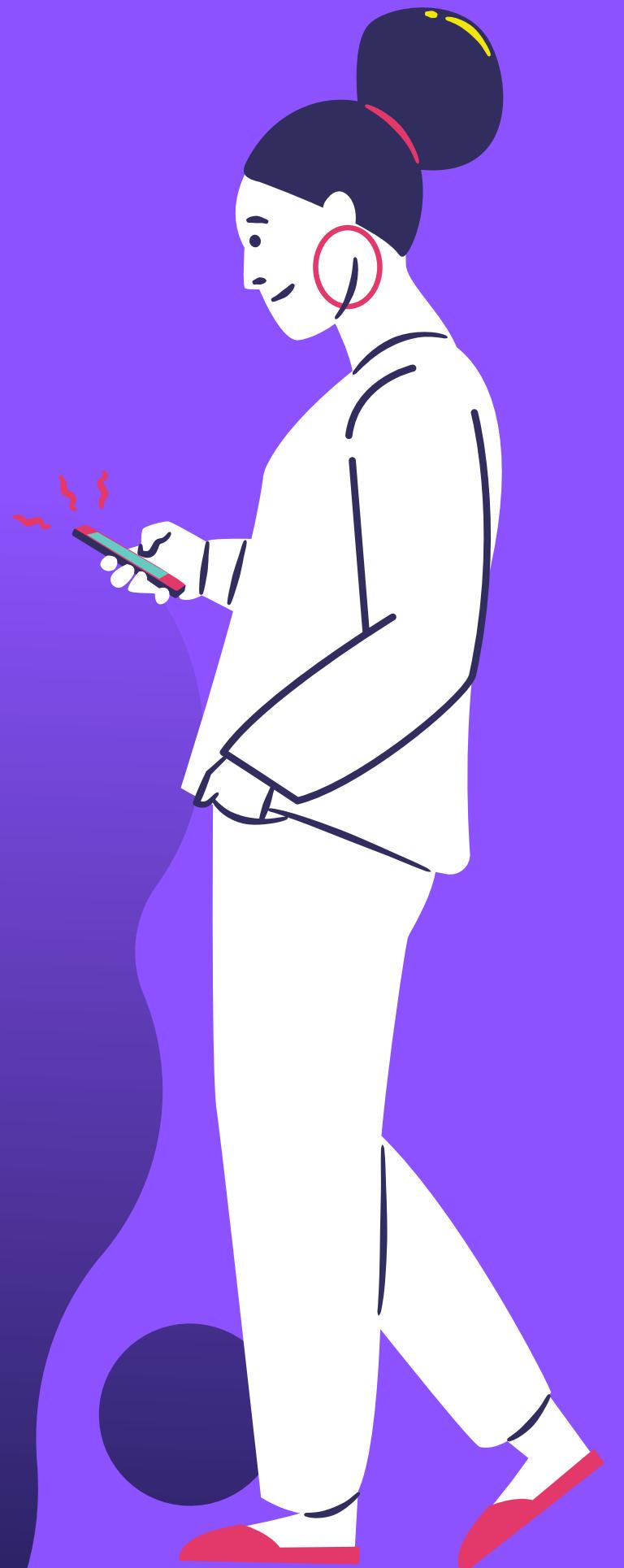
- Create UML Diagrams (HWG-3)
- Create ER Diagram (HWG-12)
- Introduction (HWG-11)
- Literature Survey (HWG-10)
- Adapted Technologies (HWG-13)
- Our Approach (HWG-14)

The sidebar shows project navigation and settings.

VERSION CONTROL

The screenshot shows a user interface for managing repositories. At the top, there's a navigation bar with links for Overview, Repositories (4), Projects, Packages, Teams, and People (4). A search bar at the top right contains the placeholder "Type ⌘ to search". Below the navigation is a search bar with the placeholder "Find a repository...". To the right of this are buttons for "Type" and "Sort", and a green "New repository" button. The main area displays four repository cards:

- HearWeGo-Back-End** [Private]
The back-end of the HearWeGo platform.
0 forks, 0 stars, 0 issues, 0 updated 3 days ago
- HearWeGo-Admin-Panel** [Private]
The Admin Panel of the HearWeGo platform.
0 forks, 0 stars, 0 issues, 0 updated 3 days ago
- HearWeGo-Artist-Dashboard** [Private]
0 forks, 0 stars, 0 issues, 0 updated 3 days ago
- HearWeGO-Main-Website** [Private]
The main website of the HearWeGo platform
0 forks, 0 stars, 0 issues, 0 updated 3 days ago



List of Diagrams



Use case Diagrams

01

Class Diagrams

02

ER Diagrams

03

Sequence

04

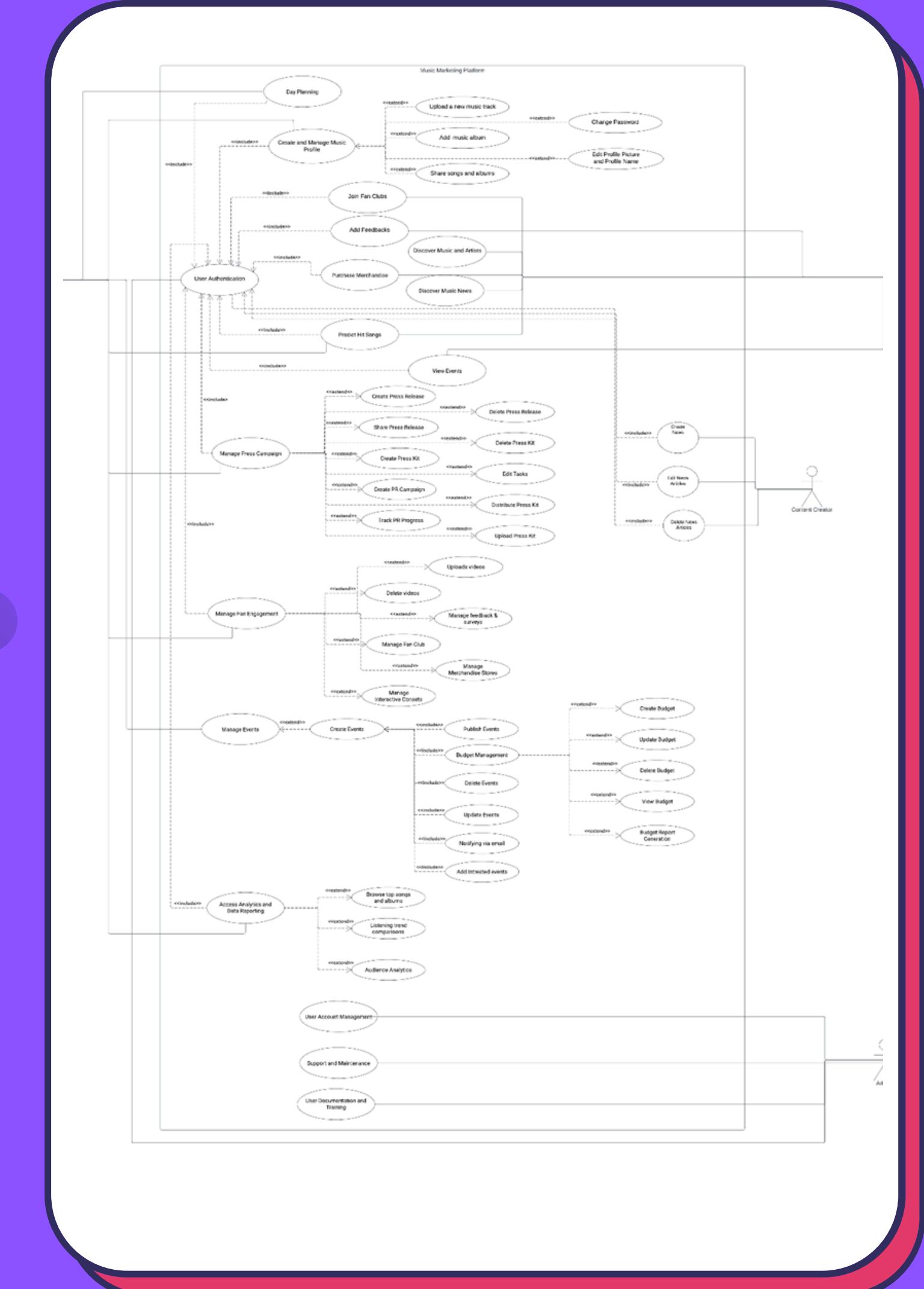
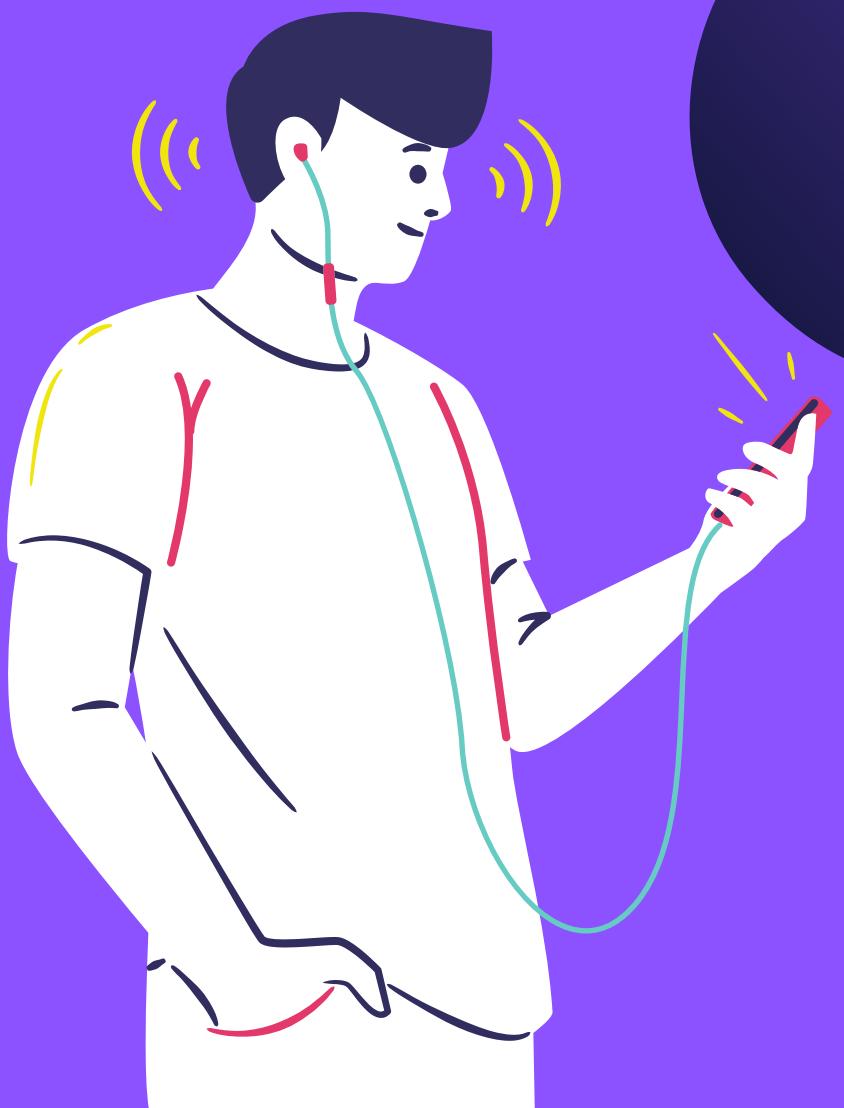
Activity Diagrams

05

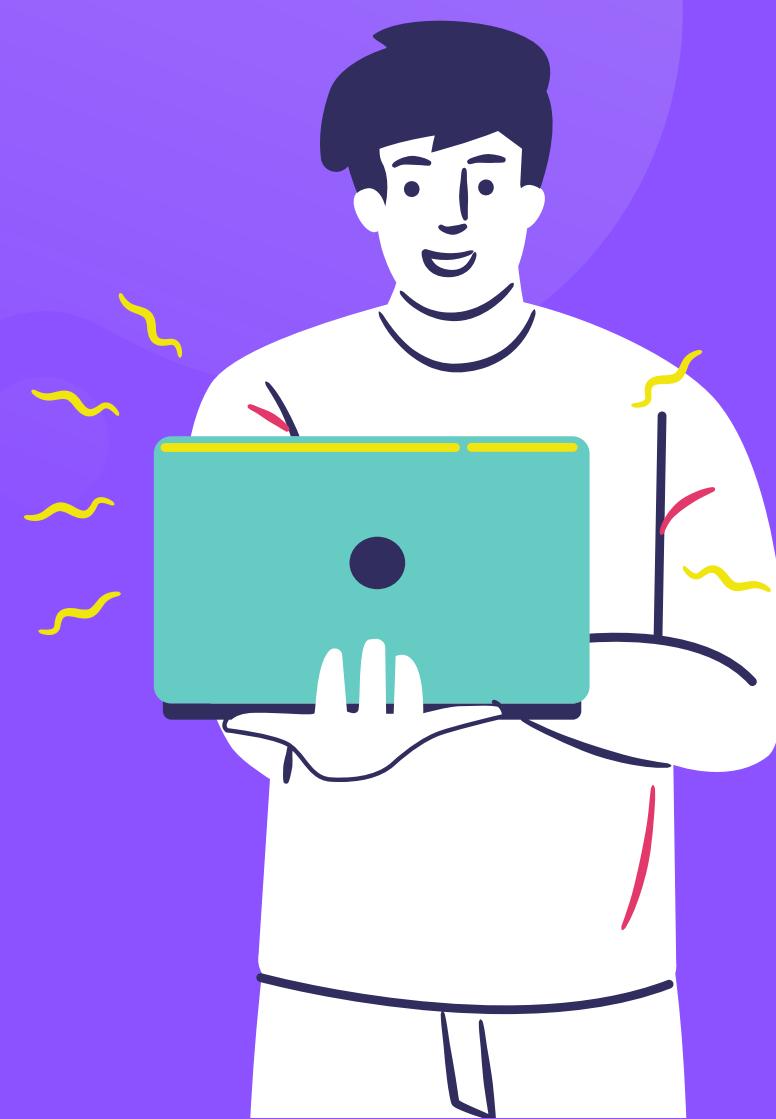
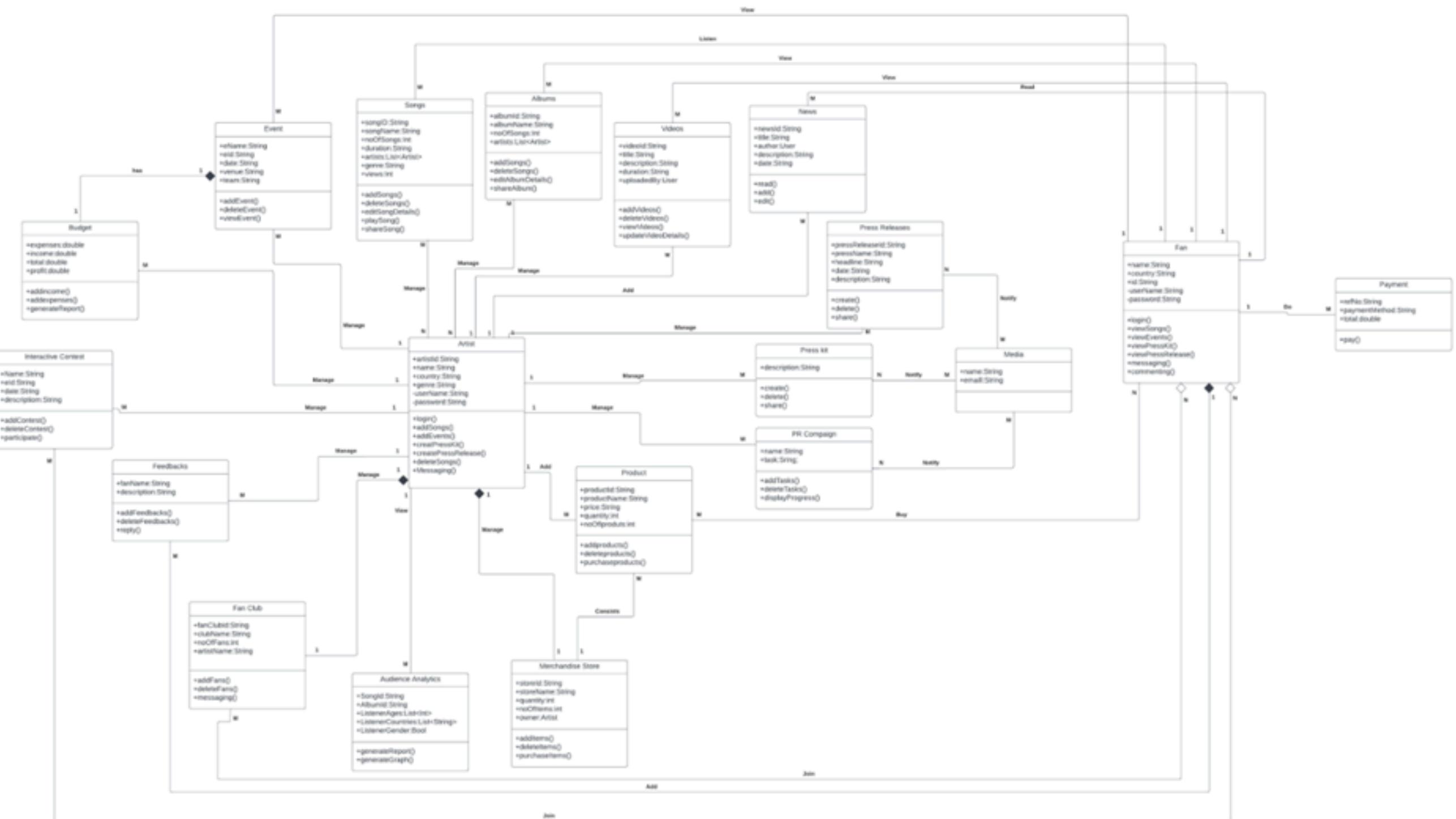
Context Diagrams

06

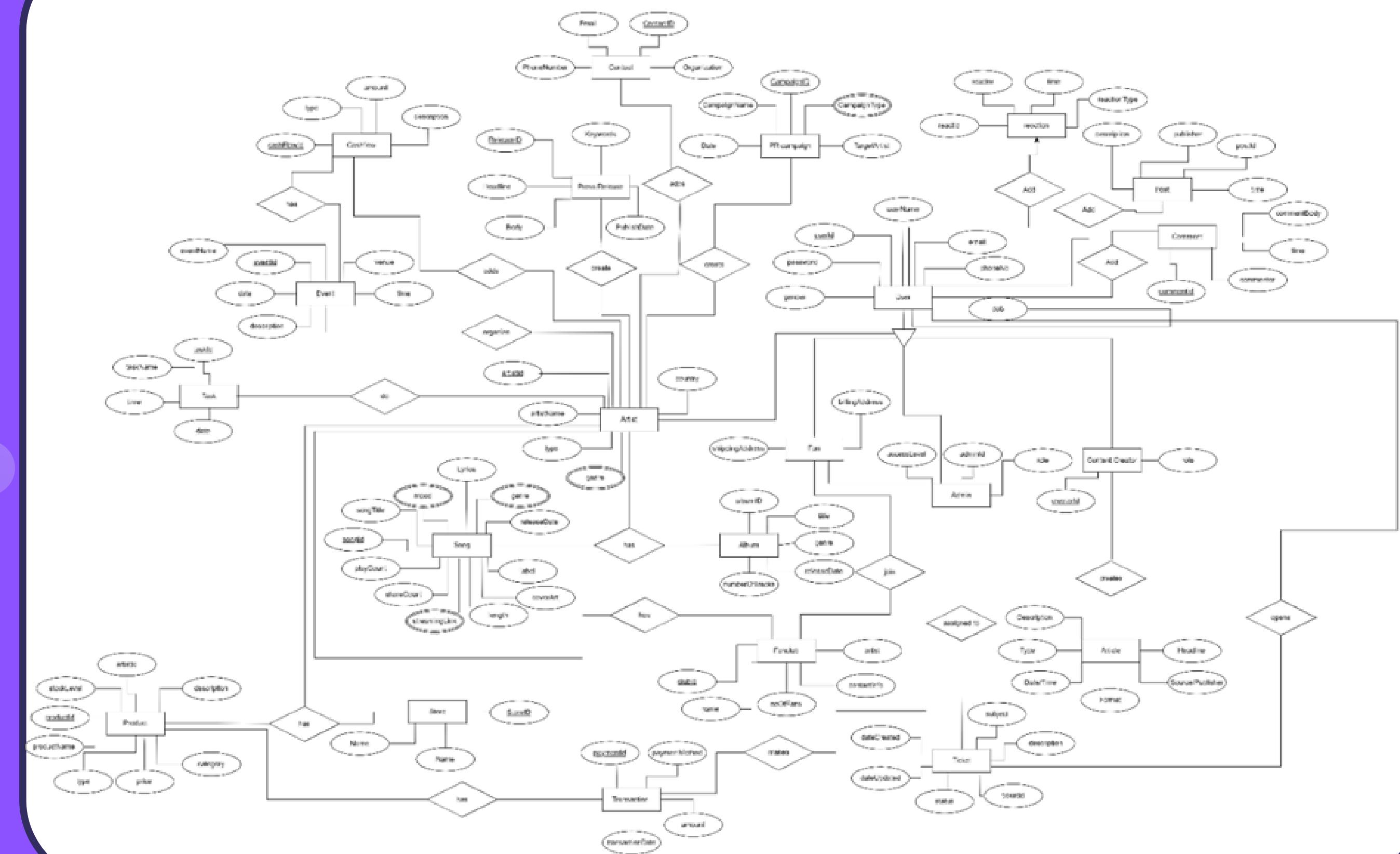
Use Case Diagram



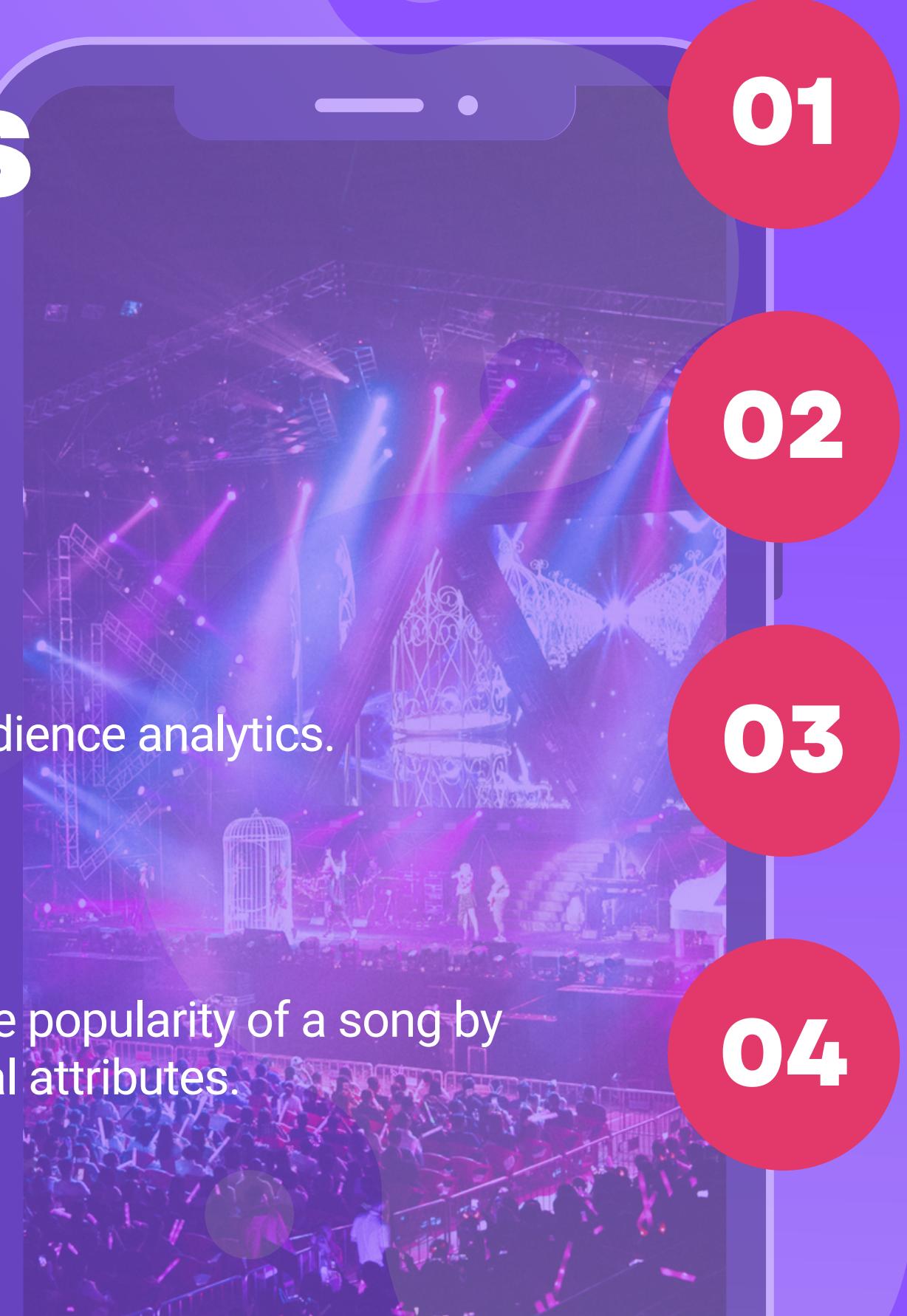
Class Diagram



ER Diagram



Achieved Objectives



01

01

02

03

04

06

05

Providing audience analytics.

Predicting the popularity of a song by using musical attributes.

Maintaining a song catalog for artists.

Building exclusive fan clubs for artists.

Providing an event planning mechanism for artists.

Making a platform to sell artists merchandise and tickets.

Desktop

Perfomance



Performance



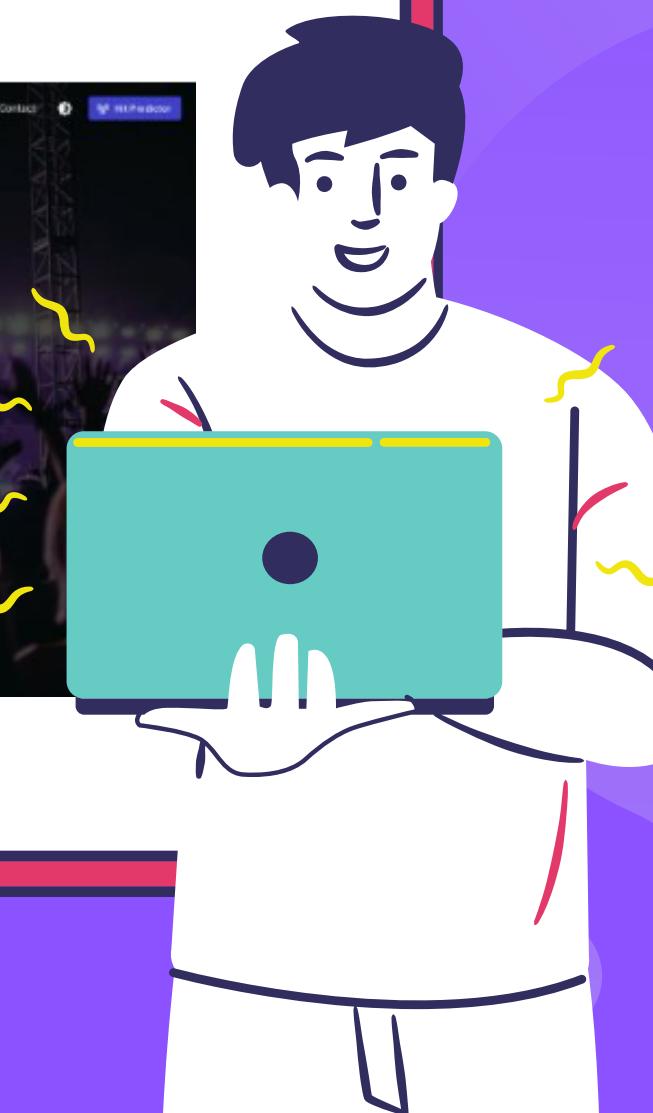
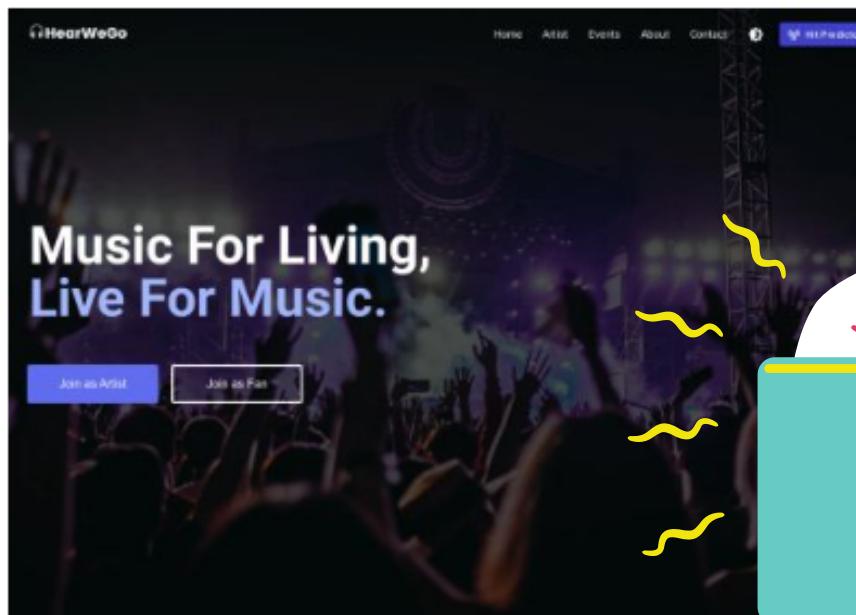
Accessibility



Best Practices



SEO



Mobile

Perfomance



Performance



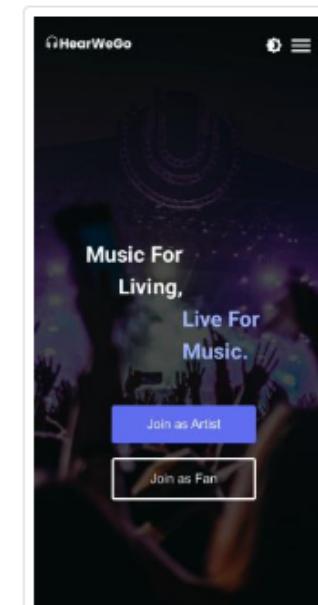
Accessibility



Best Practices



SEO



GitHub Insights

03
Repositories

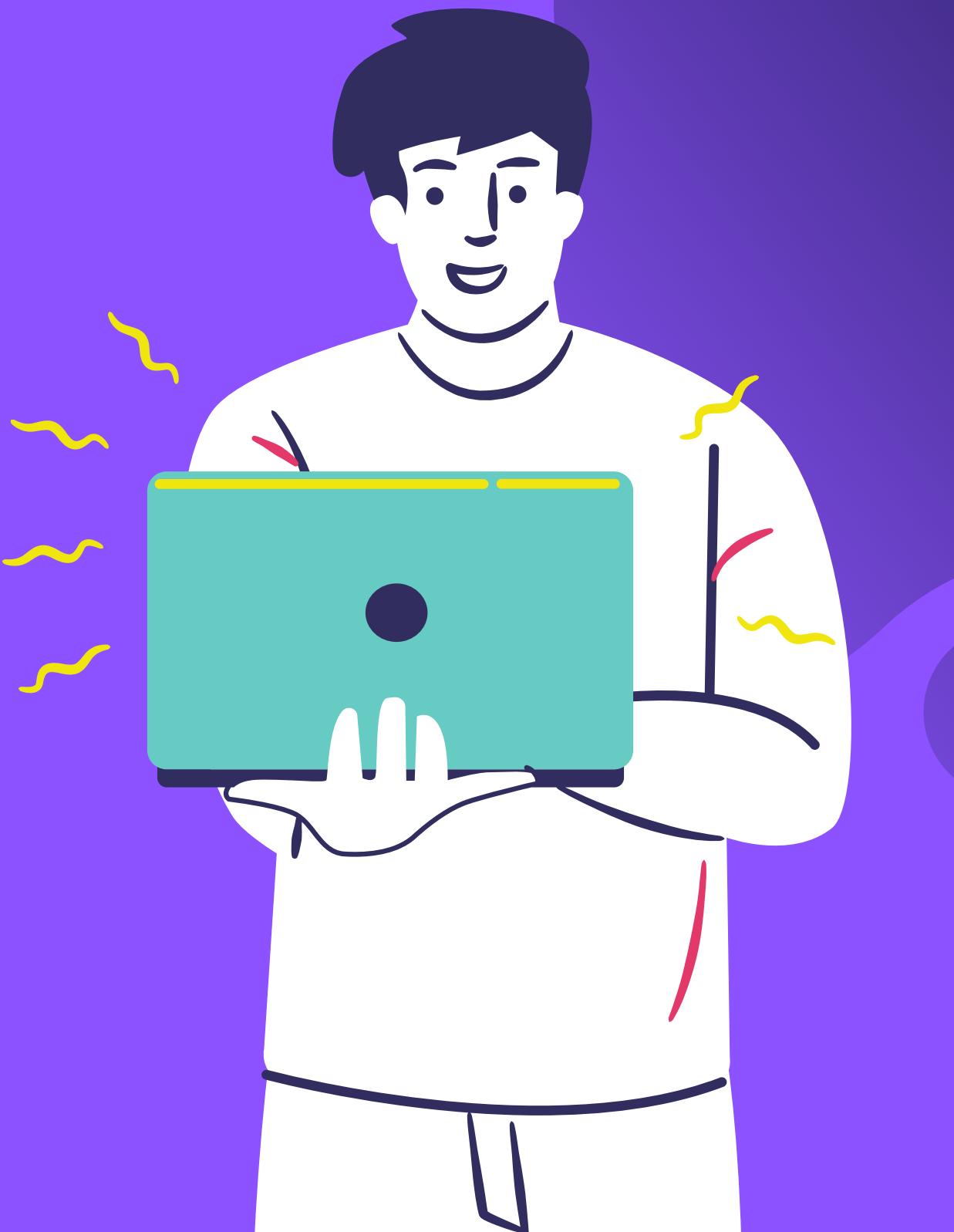
104
Branches

145
Pull Requests

464
Total Commits



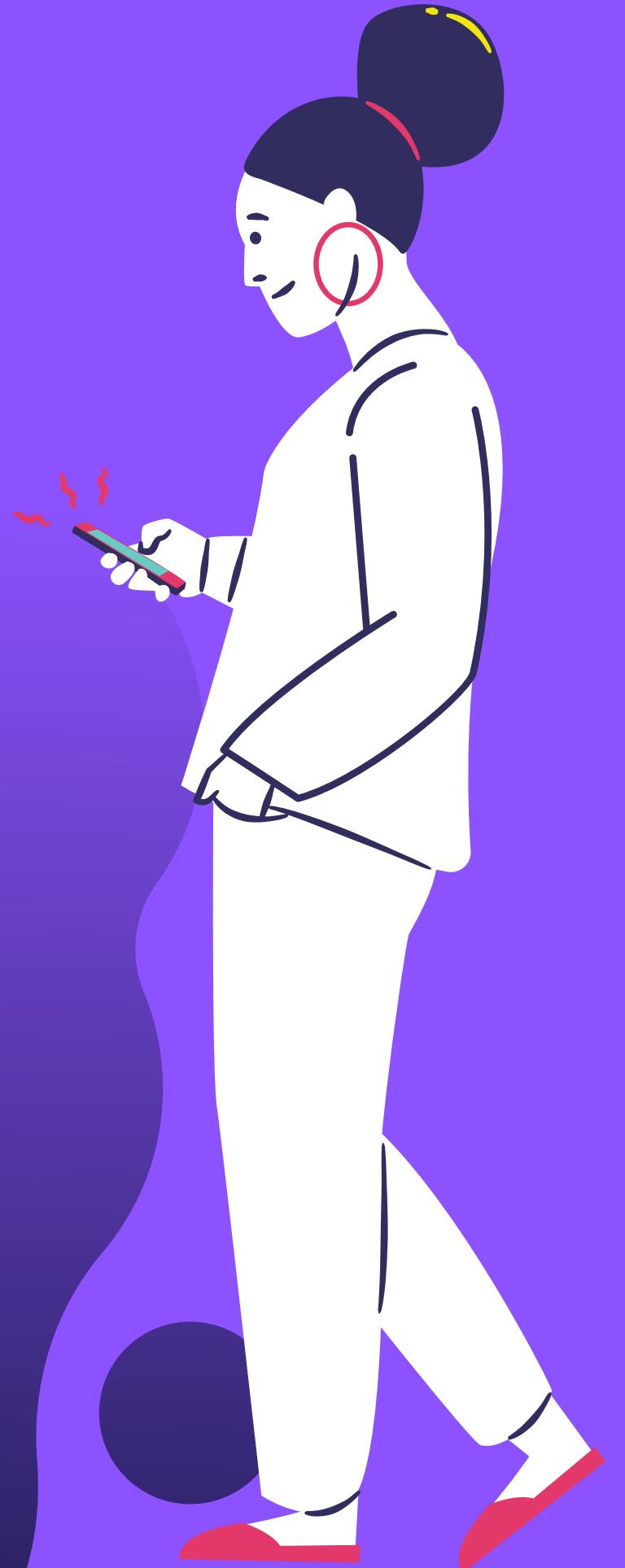
TESTING



- Manual Testing:
 - Conducted thorough manual testing of the software.
 - Ensured comprehensive coverage of all use cases and scenarios.
- API Testing with Postman:
 - Utilized Postman for detailed API testing.
 - Verified the correctness and performance of all API endpoints.

FURTHER WORK

- Enhanced Personalization.
- Social Features.
- Mobile Accessibility.
- Advanced Analytics.
- Partnerships and Collaborations.
- Improved Hit Prediction





**Demo
Time**

A stylized illustration of a person with dark hair and a white shirt, wearing a teal smartwatch. They are looking at the watch with a thoughtful expression. The background is a solid purple color with some abstract circular shapes.

BREAK FOR A MINUTE

Q&A