Technical Documentation for EduCompas

1. Project Name

- **EduCompas**: Educational platform connecting students with educational centers to help them find, compare, and enroll in courses easily.

2. Project Description

- EduCompas is designed to simplify the process of discovering educational opportunities. Students can search for courses by category, filter options, and compare course details. Educational centers can manage their profiles, courses, and events, reaching more potential students.

3. Loyihaning maqsadi Project Goal

- The goal of EduCompas is to create a unified platform for students and educational centers. For students, it offers an easy way to find and enroll in courses. For educational centers, it provides a platform to showcase their offerings and increase student enrollment.

4. Team Roles

- **PM/ Web Developer**: Responsible for overall system architecture and coordination between frontend and backend development. — Ziyodullo Shuxratbekov
- **Backend Developer**: Handles server-side logic, including database management, APIs, and integrations. — Nazrulloh Rakhmatov
- **Frontend Developer**: Develops the user interface, ensuring a smooth user experience. — Husanboy Zafarov
- **Designer**: Designs the visual aspects of the platform, including the UI/UX and overall look of the site. — Sug'diyona Akhmadjonova

5. Main Work Directions

- **User Interface (Frontend Development)**: Focused on building intuitive, user-friendly pages for searching, filtering, and enrolling in courses.
- **Backend Development**: Ensures data processing, database management, user authentication, and course recommendation algorithms are functioning smoothly.
- **Admin Panel for Education Centers**: Allows education centers to manage their courses, add new listings, and monitor enrollments.

- **Events Management**: Education centers can post upcoming events, and users can search for relevant events nearby.

6.System Block Descriptions

1. **User Module**:
   - Allows users to register, log in, and update profiles.
   - Users can take tests, receive recommendations, and enroll in courses.
2. **Course Search and Filtering**:
   - Students can search for courses by categories, location, and other filters.
3. **Course Management (for Education Centers)**:
   - Education centers can add, update, and delete course information.
   - Centers can manage course categories, levels, and branches.
4. **Events Module**:
   - Displays upcoming events from education centers.
   - Students can search for events and get more details about location and timing.
5. **Enrollment Module**:
   - Allows users to enroll in courses and tracks the available seats.
   - The system updates course capacity in real-time.

7. Used Technologies

Frondend : VanillaJS

1) noUslider

2) select2

3) jquery

4) Swiper

5) FontAwsome

6) Smooth-scroll

Backend: Python

1) Django

2) AJAX

3) Requests

4) Djazmin

5) django jazmin

8.Integrations and Data Sources

1) QuizApi - for Checking level of the students

source: https://quizapi.io

9. Technical Task

1)Greeting&Auth
1.1) Hello user
1.2)Sign up
1.3)Log in

2) Entering
2.1) Interests selection/skip
2.2) Tests
2.3) Suitable courses

3)Home
3.1) Search bar
3.2) Trading categories
3.3) Tranding course
3.4) Tranding Edu-Centres

4)Categories
4.1) Filter
4.2) Related course

5) Courses
5.1)Filter
5.2) Course details

6) Education Centers
6.1) Location
6.2) Contact number
6.3) Photo banners
6.4) Branches
6.5) Related categories
6.6) Releted courses

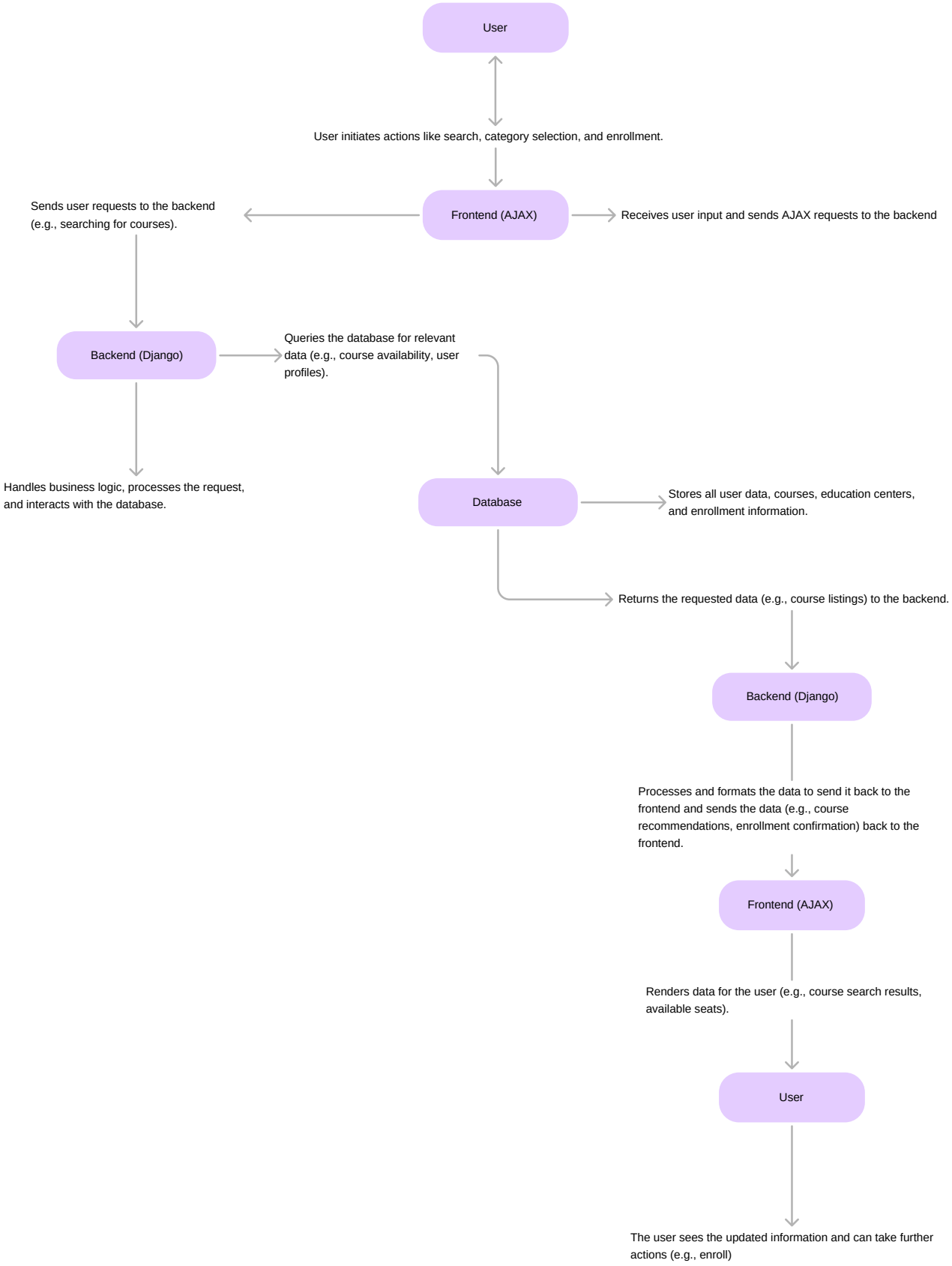
7) Filter
7.1) By price
7.2) By categories
7.3) By days

7.4) By location

8) Course details
8.1) Location
8.2) Name
8.3) Started date
8.4) Starting time
8.5) Price
8.6) Teacher's information
8.7) Level
8.8) Categories
8.9) Week-days
8.10) Contact information

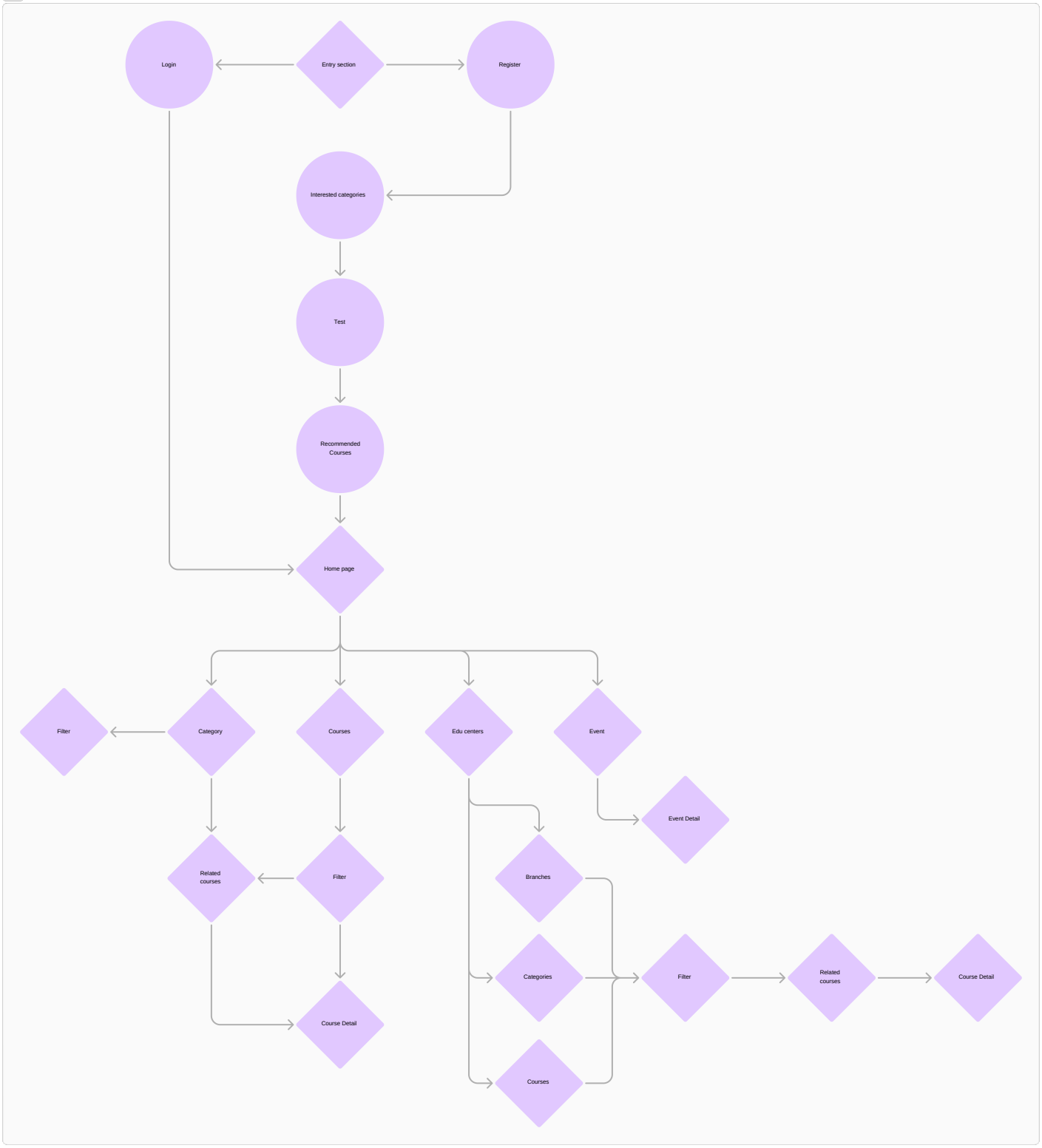
UML graphs

Back-End UX Process



UX Process

UML


Login
Entry section
Register
Interested categories
Test
Recommended Courses
Home page
Filter
Category
Courses
Edu centers
Event
Event Detail
Related courses
Filter
Branches
Course Detail
Categories
Filter
Related courses
Course Detail
Courses