Tech – Tutor E-Learning Platform

Upon accessing the Tech Tutor e-learning platform, users will encounter a main page featuring three prominent buttons: "Main Portal," "About this Tech Tutor Portal," and "Contact Us." These buttons lead to specific sections, each catering to different aspects of the platform.

1. Main Portal:

Within the Main Portal, four distinct user functionalities are available:

a) **Student:** Students have two primary options. If they already possess an account, they can log in directly. Otherwise, new students can choose the sign-up option. Once successfully logged in, students can update their profiles, access information about available courses based on professors, subjects, and semesters. Using this information, students can register for specific subjects. The portal also includes a "Transcript Request" section where students can view completed courses and, if completed, rate the course. Students can request transcripts from the admin and view their transcripts after approval. Additionally, students can send graduation requests to the third-party GradCertify authority to determine their eligibility for graduation.

b) **Professor:** Professors also have two options: to log in with an existing account or to register a new one. After a successful login, professors can view and manage their created courses. They can enable or disable courses according to their requirements. Professors can also access information about past students who have completed their courses and grade ongoing students. Furthermore, professors can create courses, specifying parameters like region, language, day, time, and semester.

c) **Admin:** Upon login, administrators have two main functions. Firstly, they can view pending student transcript requests and decide whether to accept them based on student profiles. Secondly, admins can access user feedback about the platform in a tabular format, providing valuable insights for improvement.

d) **GradCertify** (Third Party): After a successful login, GradCertify authority can view pending graduation requests from students, along with their relevant information. They can then authorize or deny these requests based on student readiness for graduation.
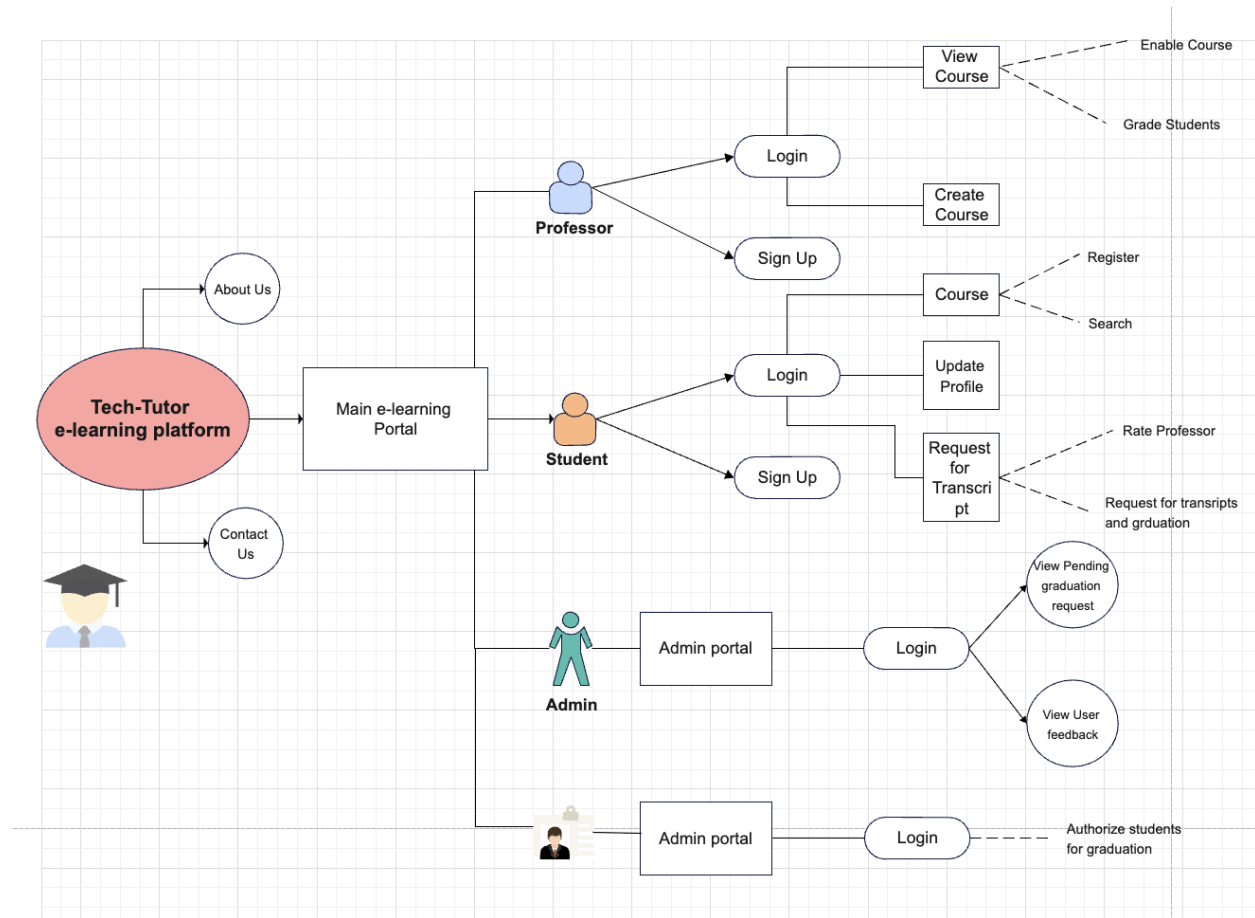
2. About Us:

The "About Us" section offers comprehensive information about the background of Tech Tutor, its mission, vision, and highlights its top recruiters. Users can gain a deeper understanding of the platform's goals and values in this section.
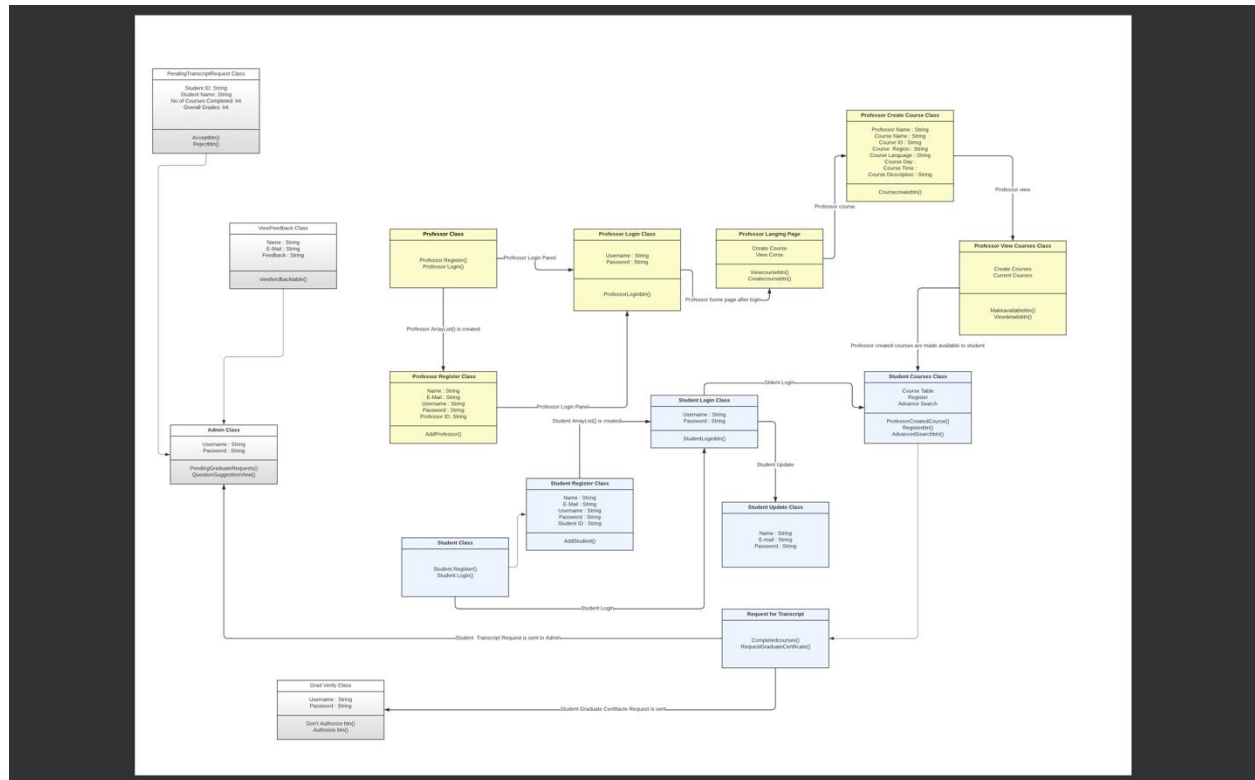
3. Contact Us:

In the "Contact Us" section, users are provided with contact information, including an email address. This allows users to reach out to the e-learning platform in case they encounter issues or have inquiries. It also serves as a channel for users to provide feedback, which is directed to the platform's administrators for review and action.

Tech Tutor E-Learning Platform offers a robust set of features for students, professors, administrators, and the GradCertify authority while also providing transparency and accessibility through the "About Us" and "Contact Us" sections.

Architecture Diagram:

Class Diagram:

Overall assessment and opinion on whether Tech-Tutor digital educational platforms of the future will make education easily accessible and affordable to the less fortune:

The **"Tech-Tutor"** e-learning platform we developed appears to provide several features and functions that might increase students' access to education and possibly lower the cost of their education. Here is a general evaluation and viewpoint on the ways in which these digital learning environments might help make education more accessible and affordable for those who are less fortunate:

1. **Availability:**
   a. Broad Reach: Students in underserved or remote places, where traditional educational institutions may be few, can access e-learning platforms. This broadens the demographic for whom educational possibilities are available.
   b. Flexible Scheduling: Students enrolled in online courses can study at their own pace and convenience, which facilitates access to education for individuals with job or family responsibilities.
   c. Cost-Effective: Those who cannot afford to move or go to a traditional campus may find education more affordable if they use e-learning, which can eliminate the need for expensive housing and transportation.

2. **Affordability:**
   a. Affordable Tuition: For those with low financial resources, certain e-learning platforms offer courses at a fraction of the price of traditional universities.
   b. Open Learning Resources (OLR): By utilizing freely accessible OLR, many e-learning platforms can lower the price of textbooks and other instructional materials.
   c. Financial Assistance and Fellowships: To help make education more accessible, certain e-learning platforms provide qualifying students with financial aid and scholarships.

3. **Self-Paced Education:**
   a. Personalized Learning: Students can select courses through e-learning that align with their hobbies and professional objectives, which lowers the chance of paying for pointless classes.
   b. Reduce Opportunity Costs: By allowing students to work while they study, the opportunity cost of enrolling in a full-time, on-site program is lessened.

4. **Continuous Enhancement:**
   a. Suggestions Loop: By enabling students to offer comments on the platform, course content and delivery may be continuously improved, increasing the efficacy and engagement of education.

5. **Roadblocks:**
   a. Technological Divide: For those who are less affluent, having access to technology and a steady internet connection might be a hurdle. Successfully closing the digital divide is essential for these kinds of platforms.

b. <u>Quality Monitoring:</u> It's critical to guarantee that assessments are impartial and trustworthy, and that courses uphold high standards of instruction.

To be summarized, **"Tech-Tutor"** e-learning platforms can greatly increase the affordability and accessibility of education, especially for those who are less wealthy. But maintaining quality standards and addressing issues like the digital gap are crucial. Furthermore, providing mentorship, support services, and a strong feedback system can improve the educational process. To meet the various demands of students, these platforms ought to keep developing and changing, improving accessibility and inclusivity in education for all.