



E-Learners

CSE 408 : Software Development Sessional

Presented by:
Saiful Islam: 1705006
Shayekh Islam: 1705009
Towhidul Islam: 1705017



Motivation

1. Digitalized education
2. Multi-language content support
3. Quality content under high-profile educators
4. Curriculum based courses, Career Track
5. Feasible payment gateway



Modules

- Account
- Course
- Search



Account Module



Account Module: Subtypes

- Student Account
- Teacher Account
- Admin Account



Account Module: Common Features

- Registration
- Personal Information



Account Module: Student Account

- Enrolled courses/progress
- Accomplishments: certificates
- Payment: optional/manual/discount



Account Module: Teacher Account

- Course creation
- Offered courses



Account Module: Admin View

- Approve teacher
- Approve courses
- Forum moderation



Course Module



Course Module: Subtypes

- Payment
 - Paid
 - Audit
 - Free
- Content types
 - Curriculum based
 - Skill based
 - Career Track



Course Module: Teacher View

- Approve Students
- Add course contents
- Forum Management
- Grading/Evaluation
- Price Management



Course Module: Public View

- About
- Review (read-only)
- Instructors
- Audit/Enroll options
- FAQ



Course Module: Student Enrolled View

- Timeline
- View Content: Video, Note, Audio, URL
- Grades
- Assignment: MCQ, Coding
- Forum
- Certificate
- Review



Search Module



Search Module

- By university, teacher, professor
- By subject, category, subcategory, curriculum, career track
- By level: beginner, inter, expert
- By duration: day, month, year
- By payment: paid, free



Existing Implementations

- Coursera: <https://www.coursera.org/>
- Udemy: <https://www.udemy.com>
- Sohopathi: <https://www.sohopathi.io/>
- Bohubrihi: <https://bohubrihi.com/>



Feasibility

Every module is implementable, but the payment gateway requires paid access to the API of the corresponding providers such mobile and conventional banking systems.



Distribution of upcoming presentations

- **Mock UI:** Towhidul Islam: 1705017
- **Class, ERD:** Saiful Islam: 1705006
- **Project Demo: All**

Thank you



Suggestions

1. Merge curriculum & career track(specially focus on CSE courses)
 - a. Web development in different languages
 - b. Programming learning
 - c. Alternative education system
 - d. Career track for 3-4 years to learn web development
2. Remove forum & certificate
3. Target students -> high school students
4. Recommendation system of rule based suggestions
 - a. Build a prerequisite graph of courses
 - b. Recommend other courses based on student performance
5. Try to implement coding evaluator
 - a. IDE/Repl
 - b.



Mock UI

1. Home from Udemy
2. User profile: show, edit from Coursera (payment info)
3. Career track from Bohubrihi
4. Course from Coursera
5. Payment pages



Next Tasks