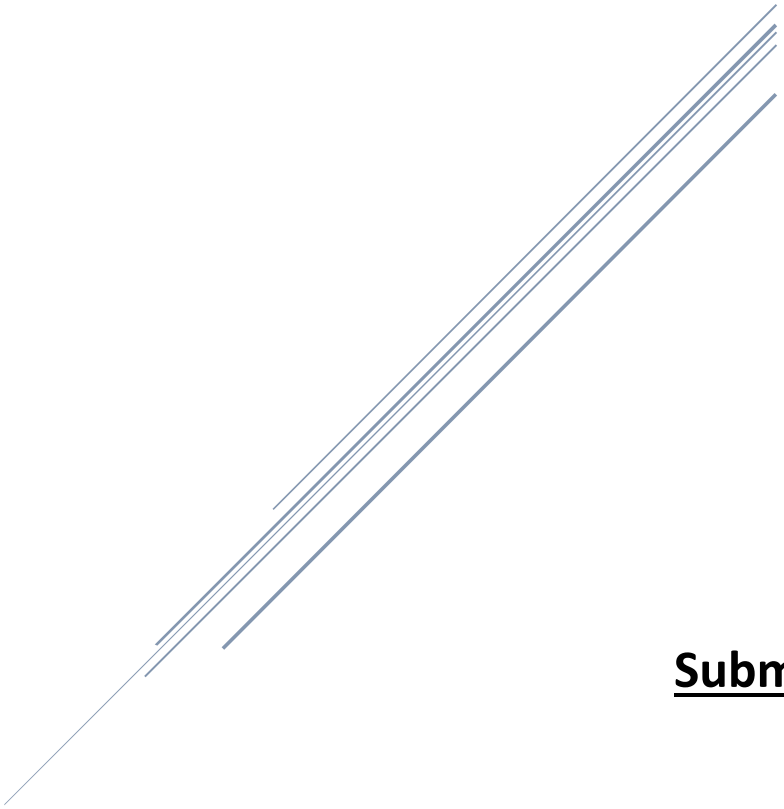
CSE 482

Internet and Web Technology

Project Report (Requirements and Use Cases)



Submitted by:

Group 4

Md. Abdullah Al-Hossain 112 0316 042

Sk. Musfique Ahmed 112 0241 042

Shamima Yasmin 113 0378 042

Project topic: University Grade Education

Description:

We expect to build a web-based project which will basically help the students of universities to improve their understanding on different topics

Admin: First of all, there must be an admin who will manage the overall process of this online tutorial website. Also, he will decide the courses and topics which will be discussed on this site.

Users as instructors: Each registered user will have the opportunity to upload their own article or video tutorial on those particular topics in order to facilitate the students. But it will require the admin's approval to upload any content or introduce new topic. On the other hand, users will have the freedom to delete their own content.

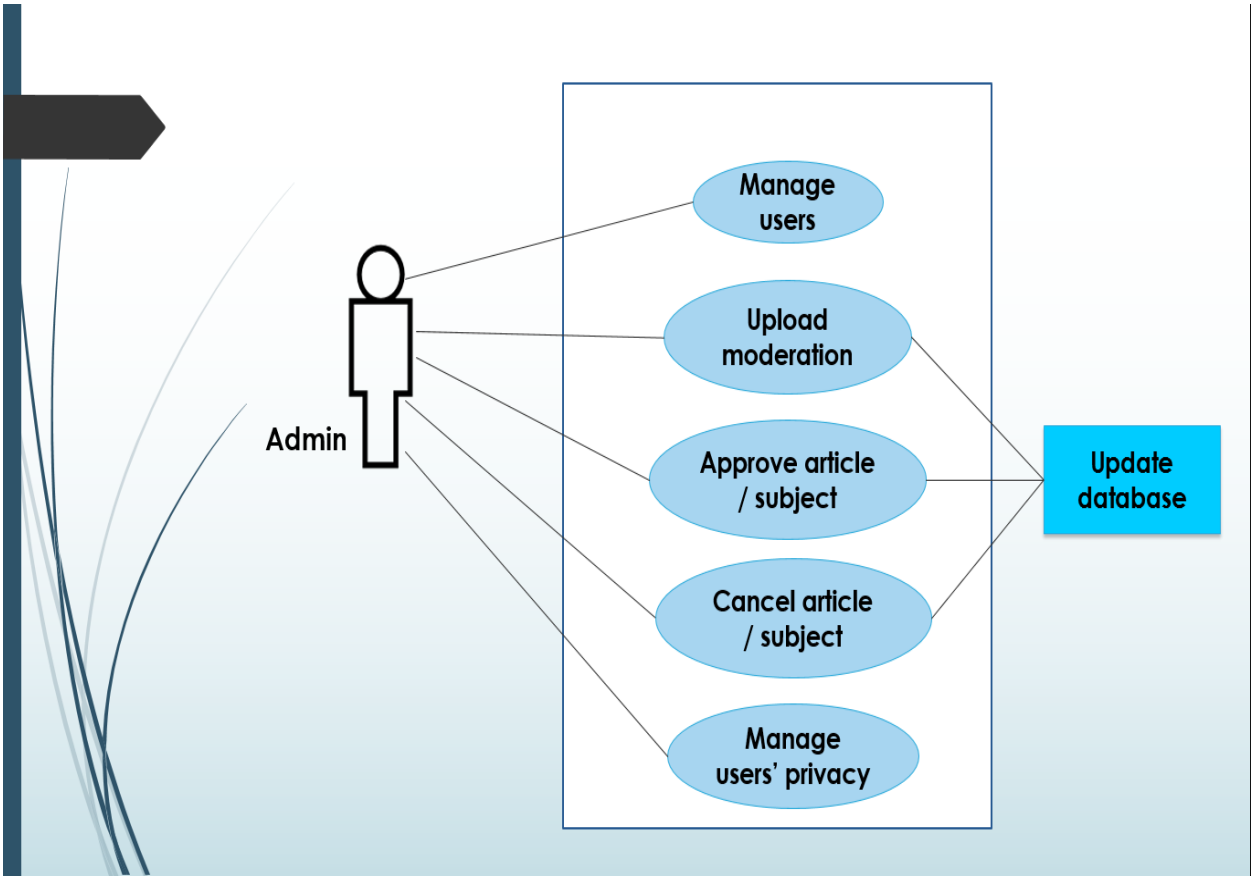
Users as learners: Learners can view any article or video without any restriction. They will also be allowed to discuss in forum, rate or comment on any content or create own wish-list.

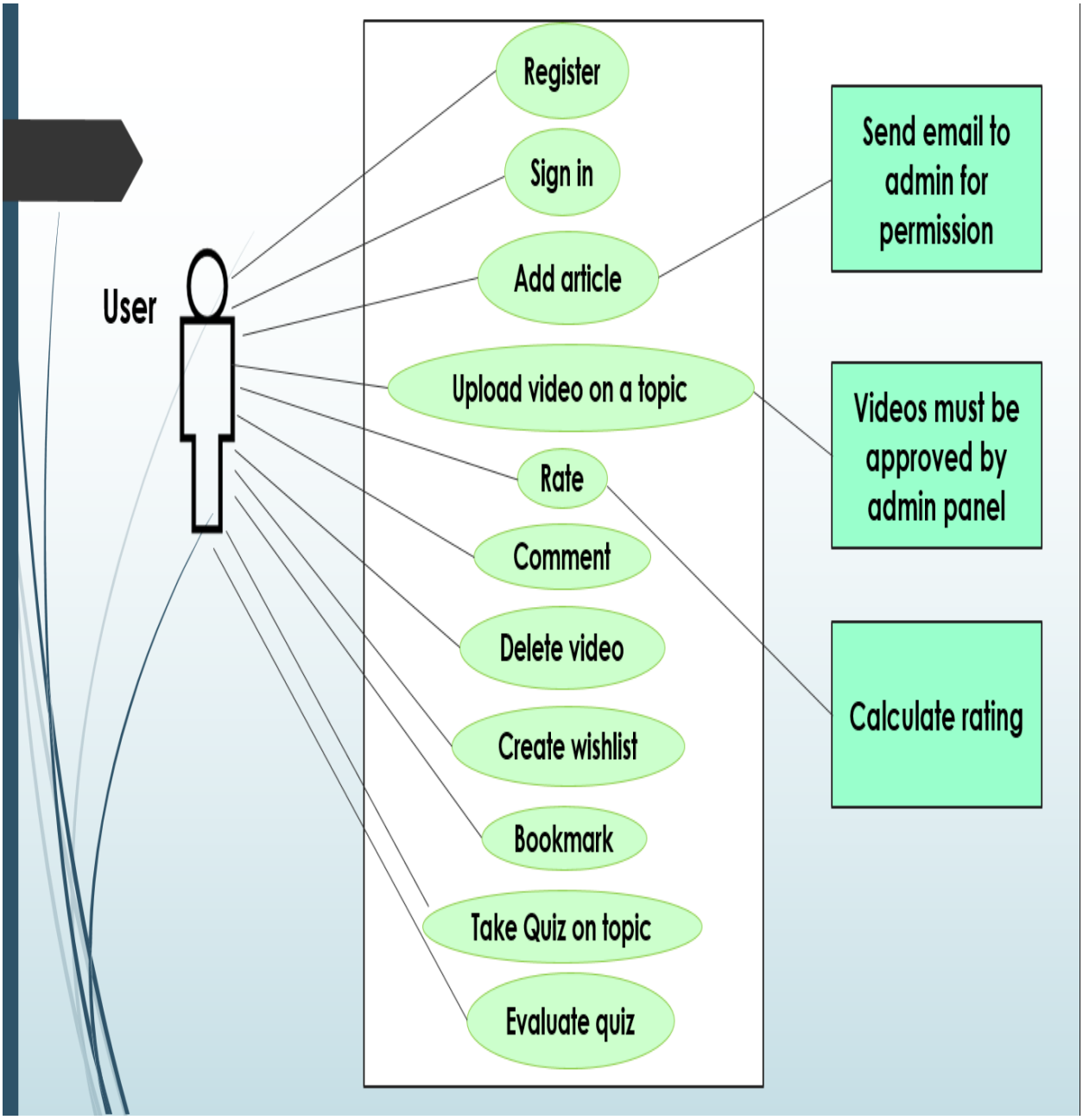
Teaching Process:

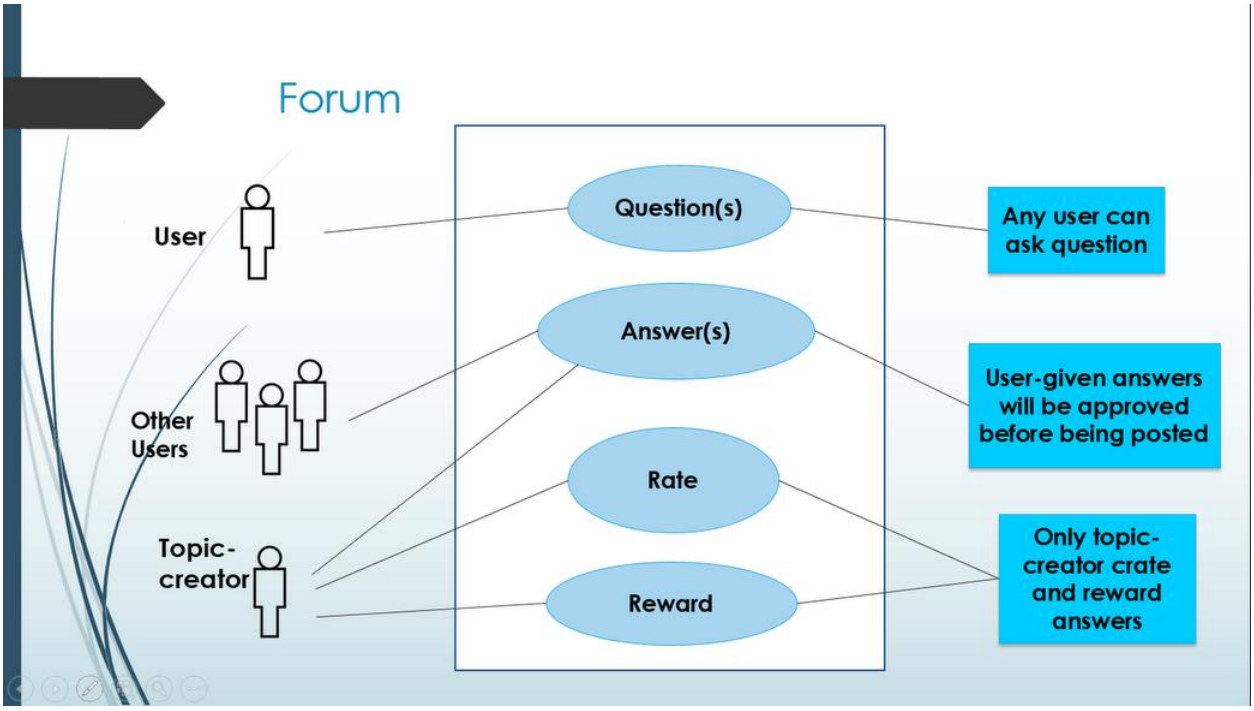
- Admin will select subject and topic
- Registered users can upload video tutorials or articles with admin's approval
- Users will be able to learn through videos and rate/comment/create wishlist
- Teachers can modify or delete own contents
- Evaluation tests can be taken and judged by the teachers

Forum:

- It will be an open-ended type forum
- Users can ask questions about particular topic
- Long-lasting questions are more focused
- Other users/topic-creator give answers
- Multiple answers can be accepted
- Topic-creator can rate and choose best answers
- Answerers get points if answered in a certain time
- Users with higher ratings will be given preference to notify to answer unanswered questions




User
Register
Sign in
Add article
Upload video on a topic
Rate
Comment
Delete video
Create wishlist
Bookmark
Take Quiz on topic
Evaluate quiz
Send email to admin for permission
Videos must be approved by admin panel
Calculate rating



Fully Dressed Use Cases:

Primary Actors:

1. Users(Registered/ Non-registered)
2. Admin

Main Success Scenario (Basic flow):

1. Anyone can be a member.
2. All users can access all tutorials.
3. Members can comment, rate or ask for any help in the forum.
4. A member can create courses (subject).
5. Member can also create articles on a specific course (subject).

6. Members can upload videos on a specific article.
7. The topic creator (teacher) can delete his articles or courses.
8. Topic creator will help the members if they asked any question in the forum.
9. Any member can answer the question.
10. Topic creator can rate the answers.
11. Topic creator has the ability to credit some points to the members according to the rule.
12. A user can take a quiz on an article.

Extensions (Alternative Flows):

1. Admin has all the power to change the rule of the system.
2. Admin can cancel one's membership
3. To add an article/subject it has to be approved by the admin
4. To modify an article/subject it has to be approved by the admin
5. Again to upload videos on articles it has to be approved by the admin
6. Topic creator can delete his own articles, courses, videos without taking permission from the admin
7. Only a registered member will have the access of the forum.
8. Only the registered member has the ability to rate, comment or ask question
9. If client browser is terminated during-
    a. Video/file uploading which is not finished yet, then system will discard the received incomplete data.
    b. An ongoing quiz, user will be penalized by a zero mark for current question and quiz timer, if any, will be halted and -

       b1. If user go to his profile in a fixed time period, he will have opportunity to resume the quiz.
       b2. Otherwise the quiz session will be dropped by penalizing marks for the rest of the questions and the score will be counted accordingly.
10. If a member forgets his/her password then the user can reset the password through some verification.

Exceptions:

If at any time the system is unable to retrieve, record or provide details then the system informs the user of the problem, attempts to record the time and nature of the failure and the use case ends.

Special Requirements:

Colors and sizes of text fonts used must provide - or be able to provide - for the visually impaired (e.g. color blindness).