Software Engineering Project

Final Report

Group – 10

Campus Charcha

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1. Introduction:

With highly growing telecommunication infrastructures, such as Internet and the development of the high performance have brought about new era of rapid advances in information technology. Internet has become an ocean of information related to every aspect which has existence in this world.

CampusCharcha is an on-campus discussion forum for the students of the campus. The product CampusCharcha is a brand-new self-contained website meant to be used as a student interaction platform for the students of IIIT Naya Raipur, where the students can ask questions and have discussions pertaining to Institute-specific as well as global issues and topics. The user needs to create an account to post, answer a question or request a poll.

The main purpose of this website is to develop a one roof platform for the effective interaction, effective exposure, and a right direction toward communication. Aim is to provide our users an opportunity to enhance their knowledge by sharing their views (by answering question or voting in a poll) on this platform by having discussions with other users.

The software described in this document is the "http://www.campuscharcha.ac.in/" website and associated support pages. This document presents an initial description of the various functionalities and services provided by the software. The document will also serve the basis for acceptance testing by the user

The website enables the students of the institute to sign-up using the institute's email ID using which they can login and use the website further. Authorised users are provided with some facilities such as:
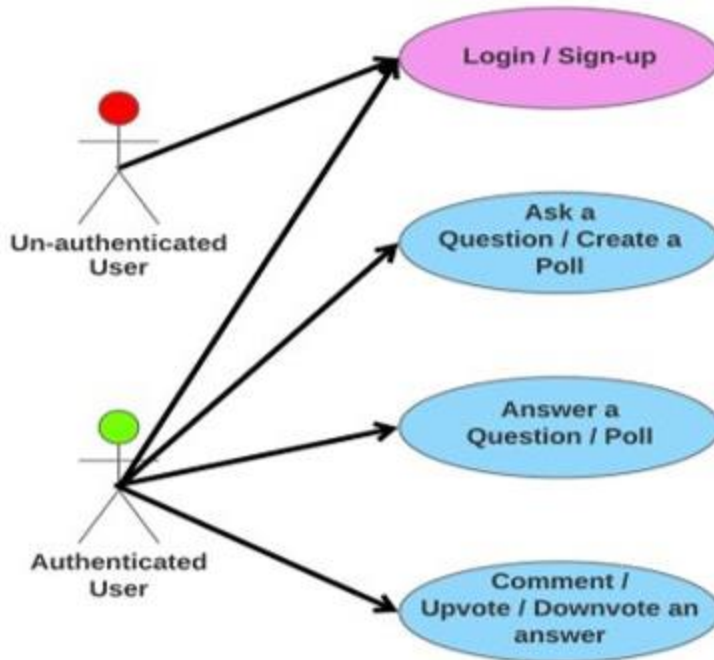
- Ask a question on the any of the pre-defined topic.
- Answer any question.
- Request a poll and many more.
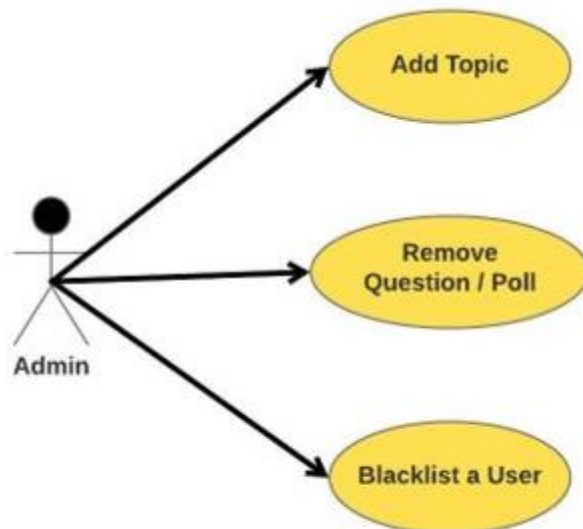

2. Software Requirement Specification

SRS Link - https://drive.google.com/open?id=1TmgQYB_-wH-KyeriNGba8SLlwNu1-pGy

3. Use Cases

1. Use Cases I - User
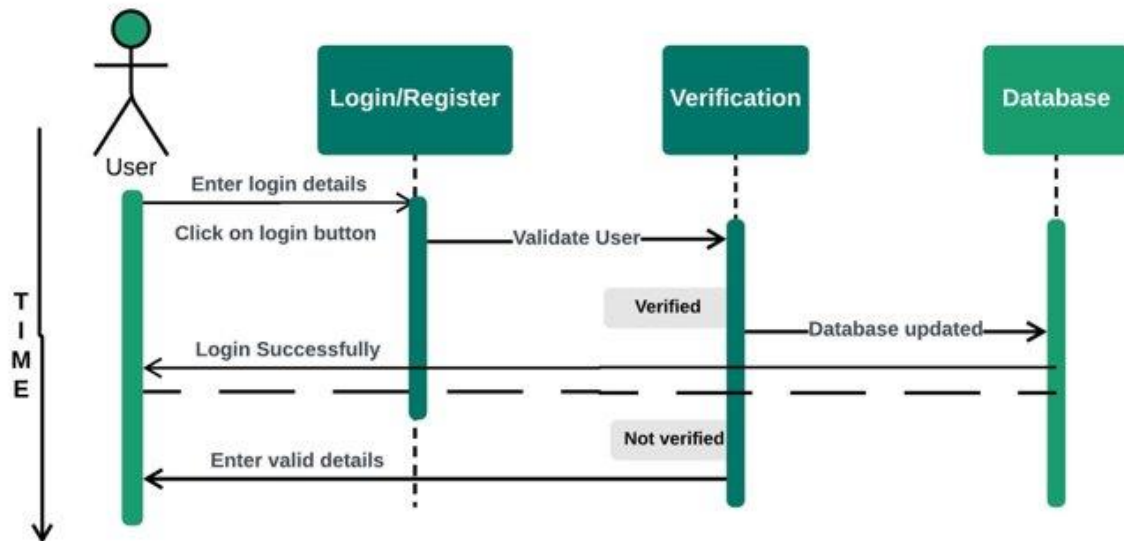

2. Use Case II - Admin

4. Sequences
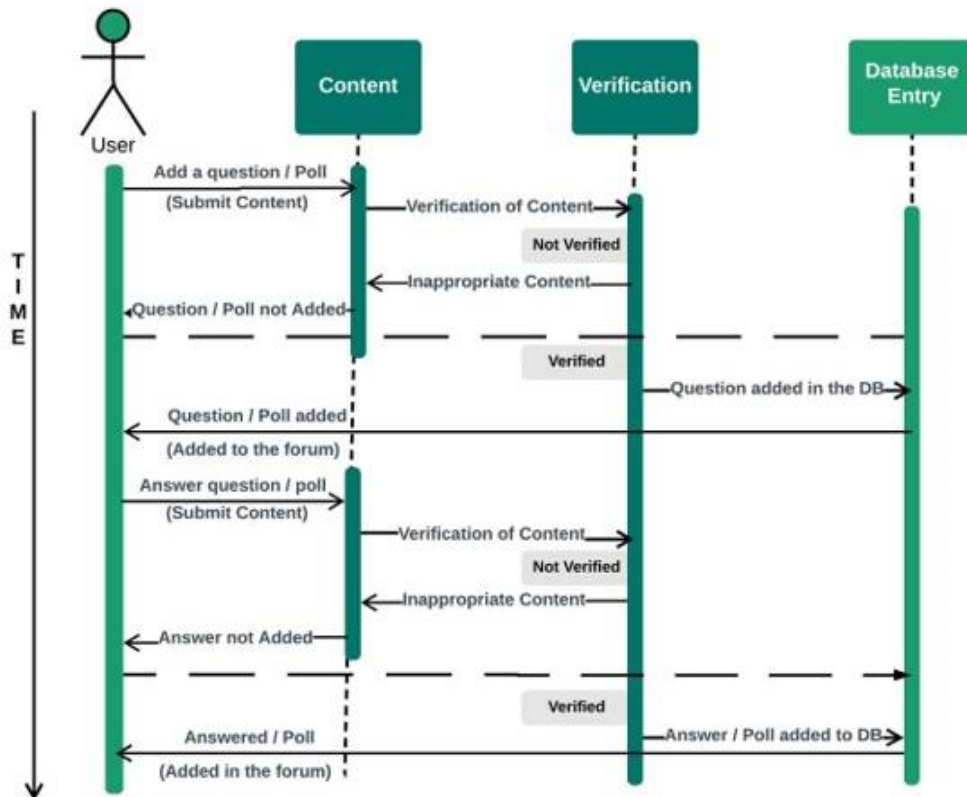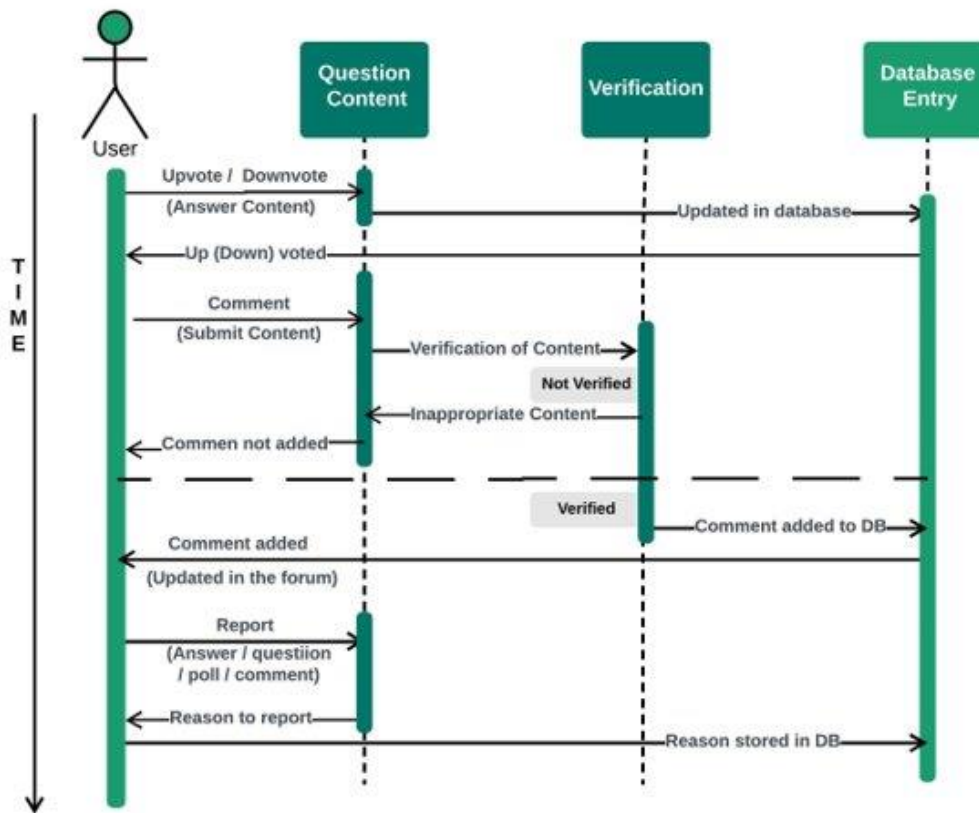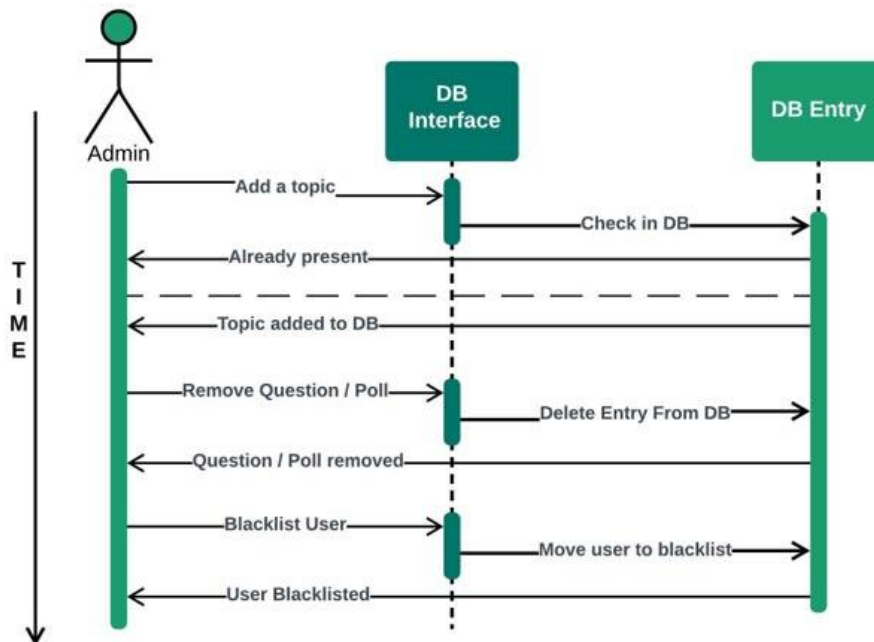
1. Login Sequence Diagram:

2. User Sequence Diagram I :

3. User Sequence Diagram II

4. Admin Sequence Diagram

5. Class Diagrams

User
+userid : string
+password : string
+question : string
+poll : string
+answer : string
+comment : string
+upvote : boolean
+downvote : boolean
+add_question/poll()
+answer_question()
+vote_poll()
+comment()
+upvote/downvote()

Admin
+adminid : string
+password : string
+remove_question()
+remove_poll()
+blacklist_user()
+add_topic()

Database
+query : string
+queryresult : string
+read_query()
+return_response()

Login / Query

Login / Maintains

6. Test Cases

Module	Test Cases	Action executed
1. Log in/ Sign up	Registration of new user	Click on Register, Enter valid details, Submit
		Click on Register, Enter invalid details (Syntax errors), Submit
	Login/Sign-In of a user	Click on Login, Enter valid login details, Submit
		Click on Login, Enter invalid login details (False credentials), Submit
2. Ask or Answer a question	Ask question	Click on the desired topic, Enter the question, Submit
	Answer a question	Click on the question, Enter the answer, Submit.
3. Create a Poll or Vote	Create a Poll	Click on Create a poll, Define Statement and Options, Submit
	Vote in a Poll	Click on any one of the choices
4. Upvote or Downvote an Answer	Upvote an Answer	Click on Upvote
	Downvote an Answer	Click on Downvote
5. Add a topic (Admin only)	Adding a topic in Database	Log in to Admin panel, Enter new Topic Name, Heading & Description
		Log in to Admin panel, Enter already existing Topic Name, Heading & Description
6. Comment on an Answer	Commenting on an Answer	Click on Comment, Enter comment content, Submit

7. Test Reports

No.	Action executed	Expected Output	Observed Output	Result
1.	Click on Register, Enter valid details, Submit	User registered successfully	User registered successfully	Success
	Click on Register, Enter invalid details (Syntax errors), Submit	Couldn't register	Couldn't register	Success
	Click on Login, Enter valid login details, Submit	Logged in successfully	Logged in successfully	Success
	Click on Login, Enter invalid login details (False credentials), Submit	Wrong UserID/Password	Wrong UserID/Password	Success
2.	Click on the desired topic, Enter the question, Submit	Question gets added on the page	Question gets added on the page	Success
	Click on the question, Enter the answer, Submit.	Answer gets added below that question	Answer gets added below that question	Success
3.	Click on Create a poll, Define Statement and Options, Submit	Poll gets added on the page	Poll gets added on the page	Success
	Click on any one of the choices	Vote count gets updated	Vote count gets updated	Success
4.	Click on Upvote	Upvote count gets updated	Count does not change	Success
	Click on Downvote	Downvote count gets updated	Count does not change	Success
5.	Log in to Admin panel, Enter new Topic Name, Heading & Description	Topic gets added on the page	Topic updated in Topic page	Success
	Log in to Admin panel, Enter already existing Topic Name, Heading & Description	Topic name already exists	Topic name already exists	Success
6.	Click on Comment, Enter comment content, Submit	Comment gets added below answer	Comment gets added below answer	Success

8. User Testing Report :

No.	Action executed	Result / Remarks
1.	Click on Register, Enter valid details, Submit	Working Fine
	Click on Register, Enter invalid details (Syntax errors), Submit	Working Fine
	Click on Login, Enter valid login details, Submit	Working Fine
	Click on Login, Enter invalid login details (False credentials), Submit	Working Fine
2.	Click on the desired topic, Enter the question, Submit	Working Fine
	Click on the question, Enter the answer, Submit.	Working Fine
3.	Click on Create a poll, Define Statement and Options, Submit	Working Fine
	Click on any one of the choices	Working Fine
4.	Click on Upvote	Not happening in one click
	Click on Downvote	Not happening in one click
5.	Log in to Admin panel, Enter new Topic Name, Heading & Description	Working Fine
	Log in to Admin panel, Enter already existing Topic Name, Heading & Description	Topic is getting added as a new topic
6.	Click on Comment, Enter comment content, Submit	Working Fine

9. Letter of Acceptance

From

The Students,

DSPM IIIT-NR

Atal Nagar

To,

Team CampusCharcha
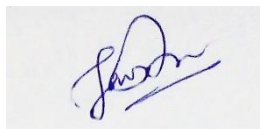
DSMP IIIT-NR

Atal Nagar

Dear Team CampusCharcha,

It gives me immense pleasure and satisfaction in making you known of the fact that the on-campus discussion forum, 'Campus Charcha' proposed by your firm has been accepted. The mock execution of the software has been a success and hence, the students have decided to use the discussion forum to ask questions and request a poll. We would like to host the forum in the college server.

There are certain facts which came to the surface while the mock execution of the software and which have to be taken into account while the installation of the software. We are hopeful that the fully functional discussion forum will help a lot of students to clear their queries and the polling system will easier the voting system inside the campus

Yours faithfully,
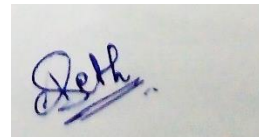
Students IIITNR
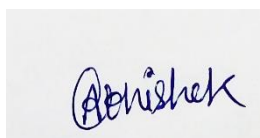

Signatures of the students:
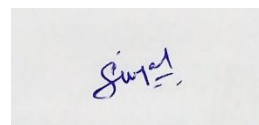
Name: Tameshwar
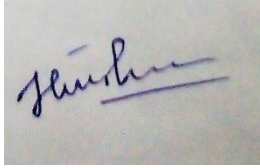Branch/Year : ECE/3rd

Name: Aman Seth
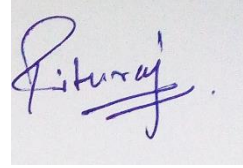Branch/Year : CSE/3rd

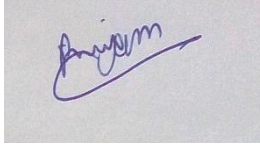Name: Abhishek Kripal
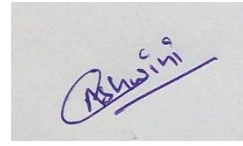Branch/Year : CSE/3rd

Name: Surya
Branch/Year : ECE/3rd

Name: Himanshu Singh
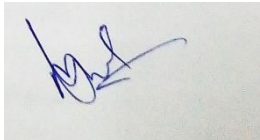
Branch/Year : CSE/3rd

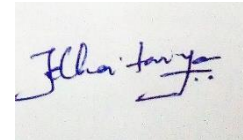Name: Rituraj Kushwaha

Branch/Year : CSE/2nd

Name: Punit Kunjam

Branch/Year : CSE/2nd

Name: Ashwini Kumar

Branch/Year : ECE/2nd

Name: Maihul Rajora

Branch/Year : ECE/2nd

Name: MK Chaitanya

Branch/Year : CSE/2nd

10. Future Work

For the future aspects of the work, there are some more functionalities which could be added to the project:

- o Direct Messaging platform on the college intranet.
- o Even having options to create survey
- o Using semantic analysis to remove the same questions
- o Automatically separating the topics in the different defined topics
- o Functionalities like bookmark questions, archive and many more.
- o Automatic analysis of the poll displays as soon as the poll ends.

11. Conclusion

The software is made successfully with all the mentioned functionalities by the client. The client has also accepted the software. The above mentioned things can be taken care of in the future versions of the software.

12. References:

- o *https://stackoverflow.com/*
- o *https://www.w3schools.com/*
- o *https://codepen.io/*
- o *https://jsfiddle.net/*
- o *https://www.google.com/*