

Online Classroom For NSU

Project: Requirement analysis
& Feature Description

Online Class Room for NSU

In recent times, due to many unavoidable reasons, we lost many scheduled class in NSU. This leadsto many unexpected incidents.

Our final product will be a complete website where teachers can take live classes and only registered students can attend those. We will work based on NSU education structure. Students will need to register under different courses. Teachers will do the same. Then they can do their class online at scheduled time.

Teachers will first register as 'teacher' in the website. Then s/he will create new class and a corresponding course code. Student will need that code for registering under that course. Teacher will accept the students request to add new courses. Teacher can upload necessary documents for the student, and can also receive different types of documents. Teacher can send messages to the students also. For taking classes, teacher will be redirected to the streaming page. There a video capturing process (encoder) will capture and stream the live feed over the internet. There will be comment section where students can ask question to the teacher.

Student's registration is easier than teachers. They just need their email address to register. Later, using the course code they can register into specific class. They will have class window containing video player and comment section for asking question. They will have a discussion-room/forum for discussing with other students.

Admin will basically monitor and maintain the whole system. We built this system by keeping NSU system in mind.

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| Home | | | |
|------|---------|--|--|
| | Sign Up | | |
| | | Register as Student | |
| | | | <i>Students needs email and new password to register. Students must give their ID. Student can fill other information if s/he wants.</i> |
| | | Register as Teacher | |
| | | | <i>Teachers needs email and new password to register. Teacherneeds tofill the information about his/her position and expertise.</i> |
| | Sign In | | |
| | | <i>Whenever a student or teacher sign in with username and password, they will be redirected to the corresponding account home page.</i> | |
| | FAQ | | |
| | | <i>It will contain generally asked question about how to sign up/in, uploading and downloading etc.</i> | |

| Account Home: (Student) | | | |
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| | <i>This page acts as a dashboard for the student. It contains several options like- classes, messages, notice board, and account information. If student clicks on any of this options s/he will be redirected to that page.</i> | | |
| | Classes: | | |
| | | <i>This will enlist the classed the students are enrolled. By clicking one of them, s/he will be redirected home for that class. It will have options like- class-room, discussion-room, Study Materials, Uploads, Marks, comments etc.</i> | |
| | | Class-Room: | |
| | | | <i>(This will be only enabled when the streaming is on) It will contain a video playing window which contains the live streaming from the teacher. It will also have comments section which will be updated in real time and students can ask question to the teacher through this section.</i> |
| | | Discussion-Room: | |
| | | | <i>This will be forum for the students in that particular class. Only students can post there. All the posts will be public for that class.</i> |

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| | | Study-Material: | |
| | | | <i>Student can download any lecture slide, assignment, research papers etc. uploaded by the teacher of that class.</i> |
| | | Uploads: | |
| | | | <i>Students can upload/submit any assignment/homework here.</i> |
| | | Marks: | |
| | | | <i>This will be the grade list for the assignments/homework.</i> |
| | | Comments: | |
| | | | <i>This will contain the collection of the comments in earlier classes.</i> |
| | Messages: | | |
| | | | <i>Student can send private messages to the course instructor and can see the replies.</i> |
| | | New message: | |
| | | | <i>Student can compose new message here and send to any of his/her teacher.</i> |
| | | View Message: | |
| | | | <i>A list of all the received messages will be shown.</i> |
| | | Sent Message: | |
| | | | <i>A list of all the sent messages will be shown.</i> |
| | Notice board: | | |
| | | | <i>All notices will be here shown as list. Clicking on them will let him/her view the notice in details.</i> |
| | Account Information: | | |
| | | | <i>This will contain all kind of personal information and account related information. It will have the options- Add new class and edit information.</i> |
| | | Edit Information | |
| | | | <i>Student can change some information about him/her (photos, contact etc.) (excluding username and email)</i> |
| | | Add New Class | |
| | | | <i>Student can add new class in their course list using the pass code given by his/her teacher.</i> |

| Account Home: (Teacher) | | | |
|-------------------------|--|--|--|
| | <i>This page acts as a dashboard for the teacher. It contains several options like- classes, messages, notice board, and account information. If teacher clicks on any of this options s/he will be redirected to that page.</i> | | |
| | Classes: | | |
| | | <i>This will enlist the classed the taking. By clicking one of them, s/he will be redirected home for that class. It will have options like- class-room, Students, Upload Center, student turn-ins, grading, comments etc.</i> | |
| | | Class-Room: | |
| | | | <i>It will contain a video capturing process window for the live streaming from the teacher. It will also have comments section which will be updated in real time and containing question from the students. There will be a list of students who are currently watching the streaming.</i> |
| | | Students: | |
| | | | <i>This will list the students enrolled for the class. Clicking one will show the public profile of that student. Teacher needs to activate a student to attend the class. S/he can remove anyone from the class.</i> |
| | | Upload-Center: | |
| | | | <i>Teachers can upload any lecture slide, assignment, research papers etc. for the student of that class.</i> |
| | | Student-Turn-ins: | |
| | | | <i>Teacher can download submitted work from student here.</i> |
| | | Grading: | |
| | | | <i>This will be the list for the assignments/homework of every student to mark them.</i> |
| | | Comments: | |
| | | | <i>This will contain the collection of the comments in earlier classes.</i> |
| | Messages: | | |
| | | <i>Teacher can send private/public messages to the students and can see the replies.</i> | |
| | | New message: | |
| | | | <i>Teacher can compose new message here and send to a particular student or students of a particular class.</i> |
| | | View Message: | |
| | | | <i>A list of all the received messages will be shown.</i> |

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| | | Sent Message: | |
| | | | <i>A list of all the sent messages will be shown.</i> |
| | Notice board: | | |
| | | | <i>All notices will be here shown as list. Clicking on them will let him/her view the notice in details.</i> |
| | | New Notice: | |
| | | | <i>This will be a public notice for all the students under his/her courses.</i> |
| | Account Information: | | |
| | | | <i>This will contain all kind of personal information and account related information. It will have the options- Add new class and edit information.</i> |
| | | Edit Information | |
| | | | <i>Teacher can change some information about him/her (photos, contact etc.) (excluding username and email)</i> |
| | | Add New Class | |
| | | | <i>Teacher can add new class in his/her course list and create the pass code</i> |

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| Admin: | | | |
| | | | <i>Admin will be able to see the public records of both the teachers and students. After logging in s/he will be redirected to the admin home page.</i> |
| Admin home: | | | |
| | | | <i>This is dashboard for the admin. This contain links to the several pages for various purposes like users-list(all student and teachers list),public notification, username and password reset etc.</i> |
| | User-list: | | |
| | | | <i>This will list all the students and teachers registered. He can create, activate and deactivate any user.</i> |
| | Public Notification: | | |
| | | | <i>S/he can send notification to any user or every user.</i> |
| | Username-password-reset: | | |
| | | | <i>If any user faces issues like “username forgot” or “password forgot”, s/he can request admin for reset that.</i> |
| | Admin Info | | |
| | | | <i>This will contain sensitive information about admin like password, first email, second email and contact info.</i> |
| | Admin password reset: | | |
| | | | <i>If admin forgets his password, he will be redirected to here. S/he will be needed all the info except the password to reset the password</i> |