



Quick Learning

SPRING 2022 CAPSTONE PROJECT

GUIDED BY:- PROF HENRY WONG

Agenda

- For the project to be successful, there must be interaction, attendance, cooperation, teamwork, and attention from every team member
- This meeting's goals are to assess our progress toward our deadlines, agree on future directions, remove obstacles, and coordinate next steps for development.
- Discussions about timely submission. Making note of significant dates. Getting all the events added to a group calendar.
- Factors to Consider: volunteers, experience, expertise, desire to learn and work, etc.
- Verify client needs, i.e., consider and research all the elements that our project would require from the client's perspective. Describe the dangers.

Accountabilities



AMIT BHAYAL
(Software Developer)



ANKUSH GURHANI
(Software Developer)



GENIUS MACHADO
(Software Developer)



SHARANYA DAVE
(Database Administrator)



SRAVANI EATA
(Business Analyst/Software Tester)



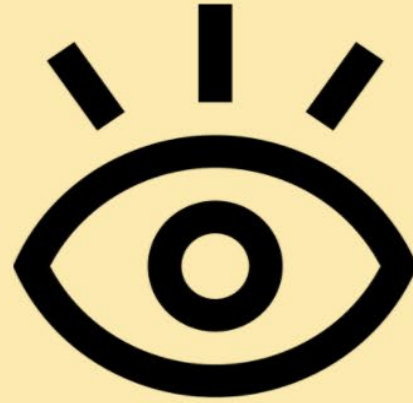
USHA TIRUMALASETTY
(Software Tester / SDE 2)

IMPROVEMENTS MADE FROM PROFESSOR'S FEEDBACK

- Team contract changed to Team working Agreement
- Roles and Responsibilities changed to accountabilities.
- Added the Wiki page link at the end.

Problem Statement

- How Students and Parents know the objective of the subjects taught in the class ?
- How the Parents monitor their kids assignments and learning material ?
- How the teachers and the student communicate with each other after the school hours ?
- How the current system can notify the user about any updates just in time ?



Project overview

- A learning management system (LMS) is a software that is designed specifically to create, distribute, and manage the delivery of educational content.
- The LMS can be hosted as a stand-alone product on the company server, or it can be a cloud-based platform that is hosted by the software firm.
- The goal of this project is knowledge management which means gathering, organizing, sharing and analysis of an organization's knowledge/resources.

Personas



Persona -1:



Name :- Debora Banerjee

Job Role/Description :- Admin / Principal

Age :- 34

- Debora manages teams of teacher's, each teacher has 40 students assigned to her.
- As the admin / Principal she overlooks the activity of the teachers and provides help when needed
- Ensuring a standard curriculum is being followed through the institute.
- Providing resources for the teachers to update according to the changing market scenario.

Persona -2:



Persona :- David

Job Role/Description :- Teacher

Age :- 29

- He teaches Mathematics.
- As a teacher, it's his responsibility to prepare lesson plans and make courses available to the students on time and collect deliverables from the student.
- Also grading them accordingly in the given time frame.
- Along with this he has to maintain the progress report of each student.
- Prepare annually grade report for each student.

Persona -3:

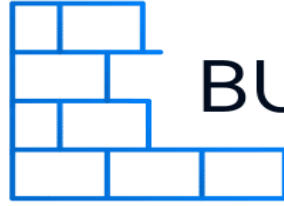


Name :- Dom

Role/Job Description :- Student

Age :- 19

- As a student, it is his responsibility to manage his course work and keep track of his deadlines.
- Meeting the requirements to receive the desired grades.
- Completing a degree that will help him reach his career goal.
- Getting accepted at his top choice of college.

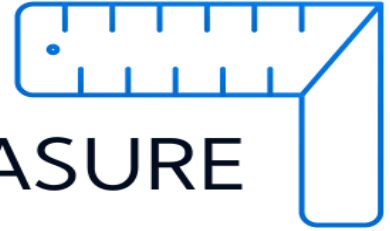


BUILD

MVP



LEARN



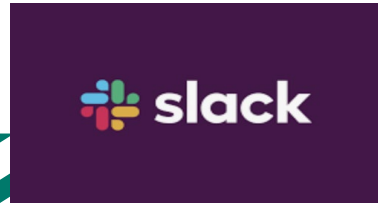
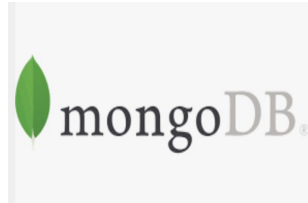
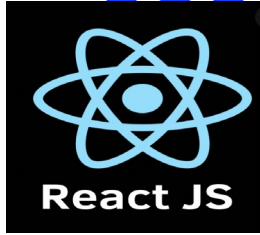
MEASURE



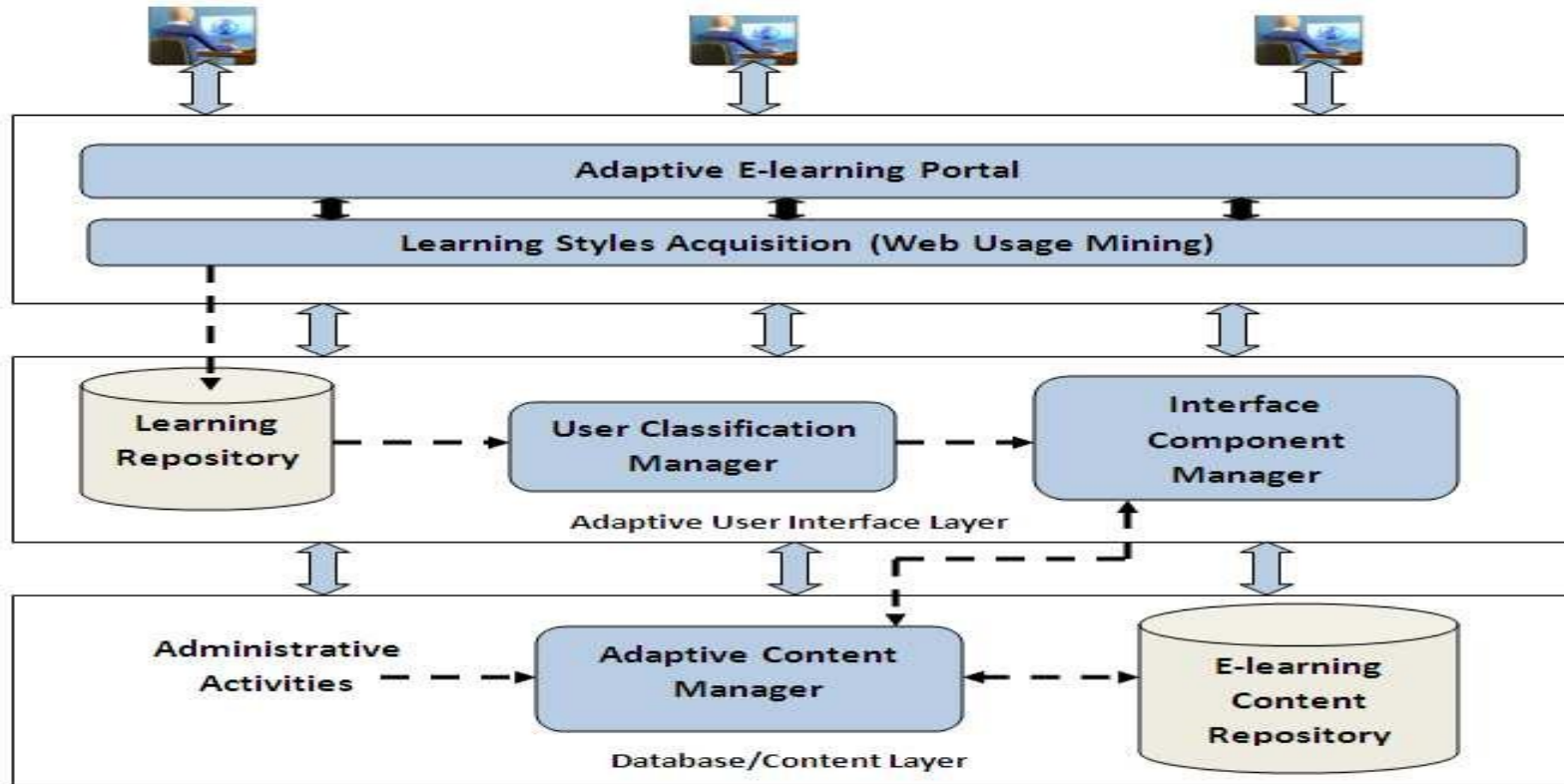
MINIMAL VIABLE PRODUCT(MVP)

- **Login** - User can login into the application with valid credentials
- **Registration/Signup** - User can register into application
- **Homepage** - User can view the course
- **Logout** - User can log out from the application
- **Add course** - User can add the courses into the application
- **Delete course**- User can delete the courses from the application
- **Cart** - Courses selected by the students are stored in the cart.

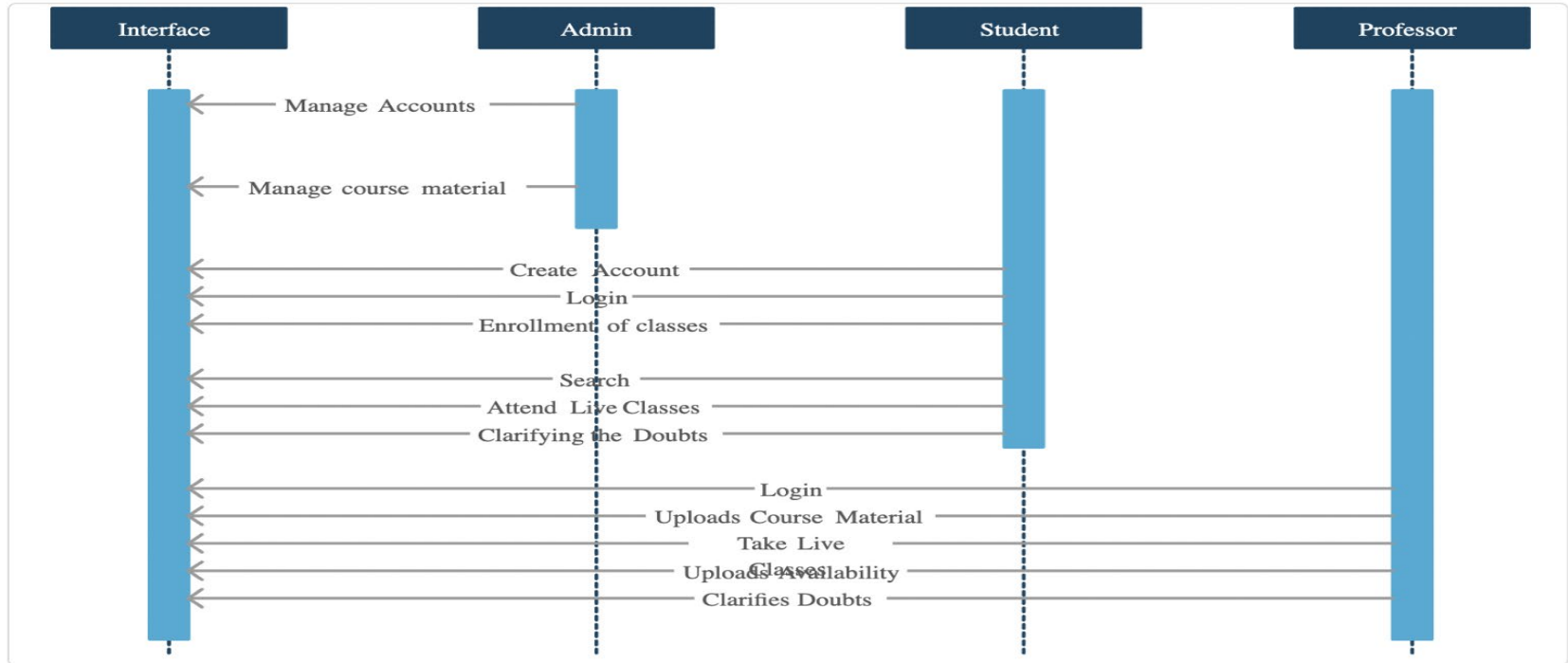
Technologies



Conceptual Architecture Diagram



Sequence Diagram



Sprint Backlog

Brewing Techno... ▾ All Standard Iss... ▾ To Do ▾ Unassigned ▾ + More Contains text

Created Date: Within the last 4... ▾ ×

T	Key	Summary
	BREW-66	Getting wrong alert when the password or email is wrong
	BREW-65	Getting wrong alert when the password or email is wrong
	BREW-64	Getting wrong alert when the password or email is wrong
	BREW-62	User can monitor the attendance of students and professor.
	BREW-61	User can modify the course.
	BREW-60	User can view students present in course.
	BREW-52	User should be able to view the price for his course and make the payment.
	BREW-51	User can participate in the workshops.
	BREW-50	User can upload the assignments.
	BREW-49	User can earn the badges.
	BREW-48	User can download the course Materials.

Brewing Techno... ▾ All Standard Iss... ▾ To Do ▾ Unassigned ▾ + More Contains text

Created Date: Within the last 4... ▾ ×

BREW-49 User can earn the badges.

BREW-48 User can download the course Materials.

BREW-47 User can view the Dashboard.

BREW-46 User can register for the course.

BREW-45 User can view the list of courses.

BREW-39 User can give the feedback.

BREW-38 User can track the students Performance.

BREW-37 User can send the announcement to the students.

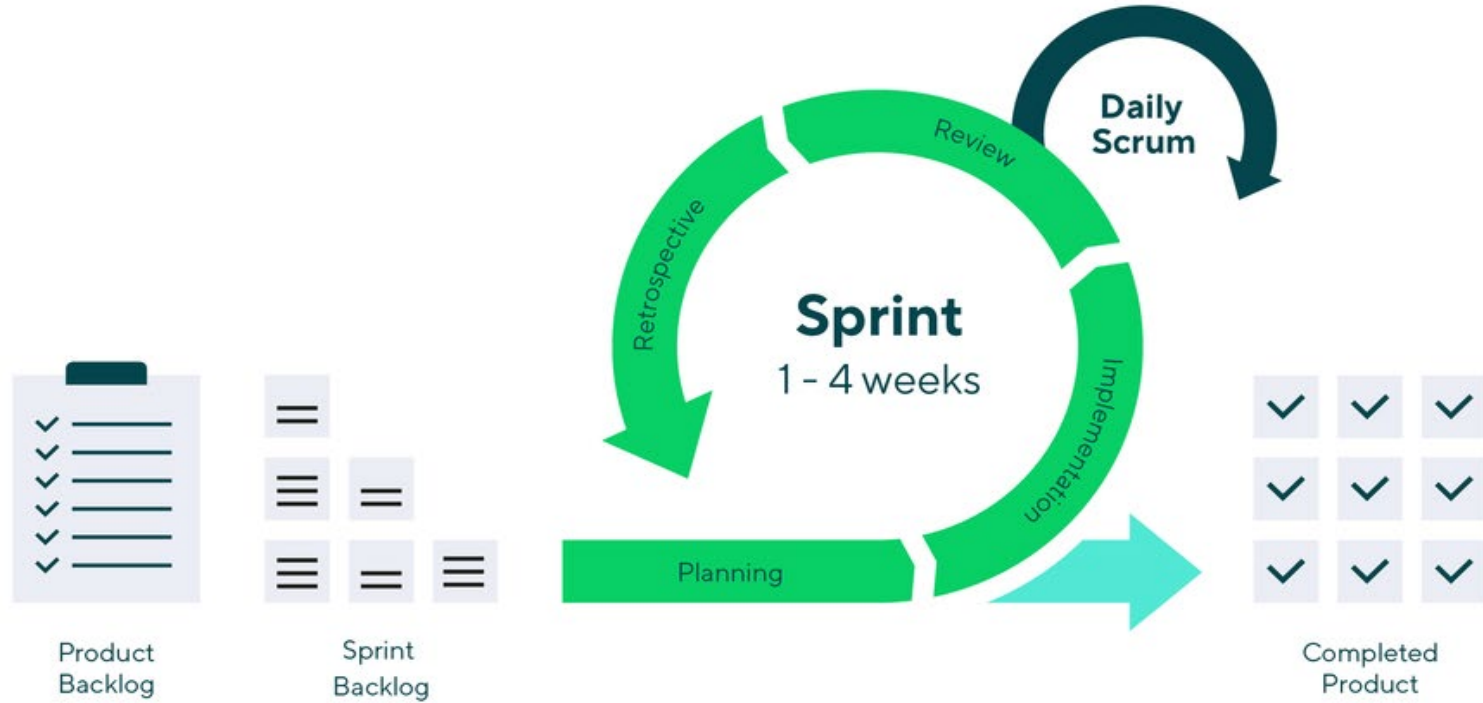
BREW-36 User can upload the course materials/videos.

BREW-30 Admin

BREW-29 Student

BREW-28 Professor

Sprint Schedule



Sprint 1 (07th Sept 2022 - 27th Sept 2022)			
Name	Status	Priority	Priority Estimation(Days)
Discuss Project Ideas and brainstorming	Done	High	10
Create Team Roles	Done	Medium	2
Establish Weekly Meetings	Done	Medium	3
Set up Github and Wiki Page	Done	Medium	2
Work on Deliverable 1	Done	High	5
Total			22
Sprint 2 (28th Sept 2022 - 26th Oct 2022)			
Name	Status	Priority	Priority Estimation(Days)
Research Existing Management Systems	WIP	Medium	2
Detail research on the existing personas	WIP	Medium	2
Design the Database	NA	High	2
Dry run the Database	NA	High	3
Research more on technologies	WIP	Medium	3
Work on Deliverable 2	NA	Medium	3
Total			15

User Stories



UserStory ID

US001

As an Admin/Professor/Student.
I want to be able to login and logout.
So that the I can login in to the application and see my Personal Profile.
Scenario: When the Admin/Professor/Student login/logout into the portal.
Given Admin/Professor/Student has created their quick learning login credentials.
When the Admin/Professor/Student uses his credentials.
Then Admin/Professor/Student can see their profile.

US002

As an Admin/Professor/Student
I want to be able to access My Account
So that they can edit the Profile Photo.
-> Review the Personal Information.
-> And change their personal information.
Scenario: When the Admin/Professor/Student goes to My Account
Given Admin/Professor/Student has already made their profile.
When the Admin/Professor/Student changes their profile picture.
Then Admin/Professor/Student can see their profile picture on their home page.

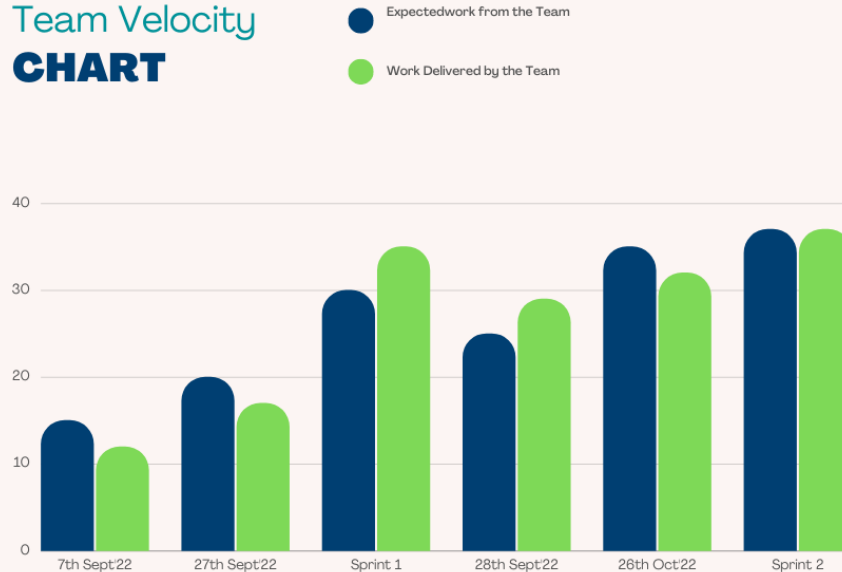
US003

As an Admin
I want to be able to view the list of students and teacher details.
-> Create the profile.
-> Modify the course.
-> View students present in the course.
-> Monitor the attendance of students and professors.
Scenario: When the Admin wants to access the courses
Given the admin login with his credentials
When the admin wants to see the list of students/teachers
Then they can view the details of the students/teachers present in the course

Test ID	Description	Test Case	Current State	Test Data	Expected Result	Actual Result	Result
TD0010		Reach the login page	User did not login into the application		User should be able to login	Same	Pass
TD0011		click Sign in button	User did not login into the application		User should be able to click the sign in	Same	Pass
TD0012		Provide valid username	User did not login into the applica	user=example@gmail.cc	User should be able to enter the username in the specified box	Same	Investigating
TD0013		Provide valid Password	User did not login into the applica	Eg:Abc@123		Same	Investigating
TD0014	Login	Encryption of password	User did not login into the applica	Eg:XXXXXX	Password should not be visible	Not the same	Investigating
TD0015		Password should be more than 8 charac	User did not login into the applica	Eg:Abcd@1233	User should get the message that password is too short	NA	Pass
TD0016		Login	User did not login into the application		User should be able to click on the login Button	Same	Pass
TD0017		Create Account	User did not login into the application		User should be able to click on the create account and should be navigated to to thenaccount cre	Same	Pass
TD0018		Forgot Password	User did not login into the application		User should be able to reset the Password	Same	Pass
TD0020		Get the access to the account	User logged into the application		User should be able to log in.	Same	Pass
TD0021	Account	Change the Profile Picture	User logged into the application		User should be able to change the Profile Picture.	Same	Pass
TD0022		Change the Personal Information	User logged into the application		User should be able to change the Personal Information.	Same	Pass
TD0030		Get the access to the account	User logged into the application		User should be able to log in	Same	Pass
TD0031	logout	Click on logout	User logged into the application		User should be able to locate log out on the home page	Same	Pass
TD0032		get a confirmation message	User logged into the application		User should get the confirmation message	Same	Pass
TD0033		Click yes	User logged into the application		User should click on yes button to terminate the session	Same	Pass
TD0040		Get access to the quizz	User logged into the application		User should be able to take quizz	Not Same	Not implemented
TD0041	Quizz	Get access the marks	User logged into the application		User should see the marks on the portal.	Not Same	Not implemented
TD0042		Taking quizz on time	User logged into the application		User should be able to take quizz on time after it expires user cannot take it.	Not Same	Not implemented
TD0043		Get access to the answers	User logged into the application		User should be able to see the correct answers.	Not Same	Not implemented

Team Velocity Chart

Team Velocity CHART

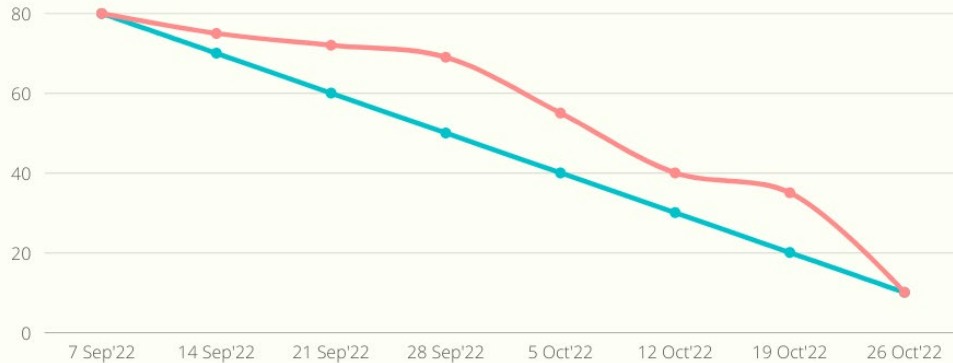


- The bar below describes the growth of our project during 28th Sept - 26th Oct 2022.
- This chart shows more in depth analysis of timeline productivity where our team was able to keep up the deliverance with the expectation.



Burndown Diagram

Burndown Chart



■ To-Do

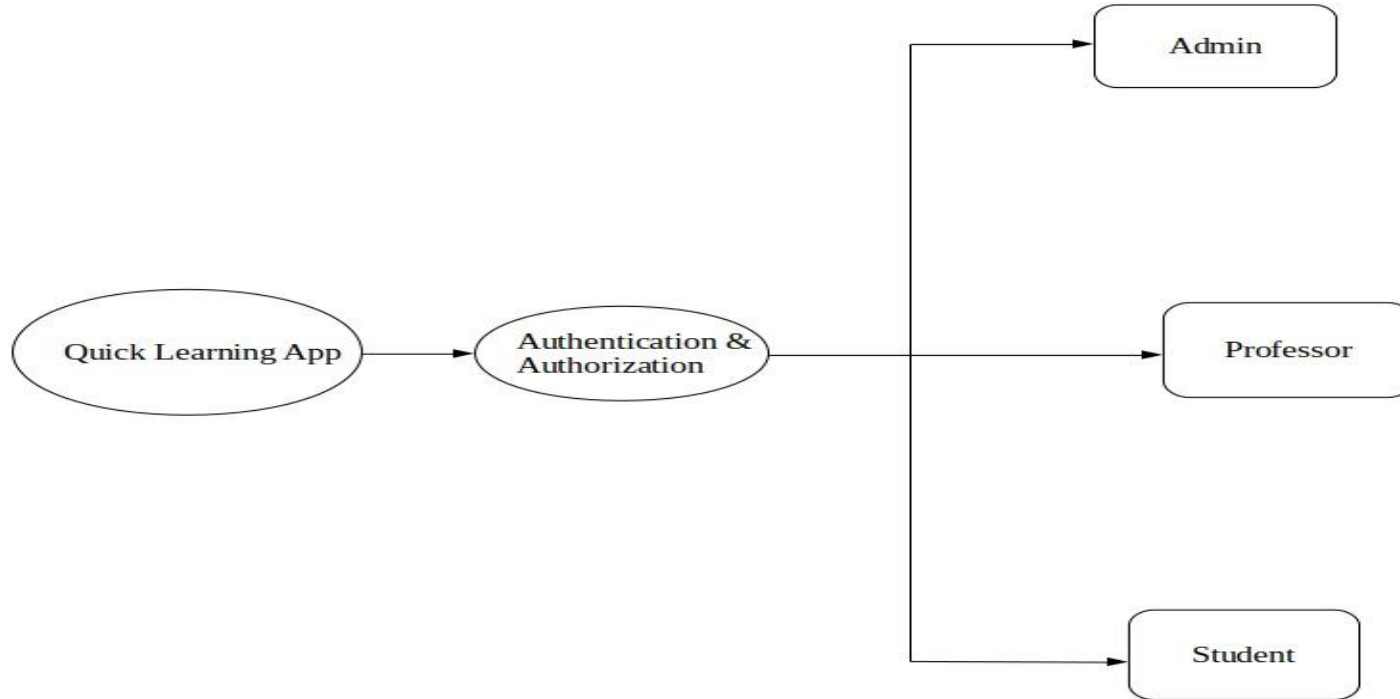
Our Team has always managed to stay ahead of time to not miss with any deadlines or dues.

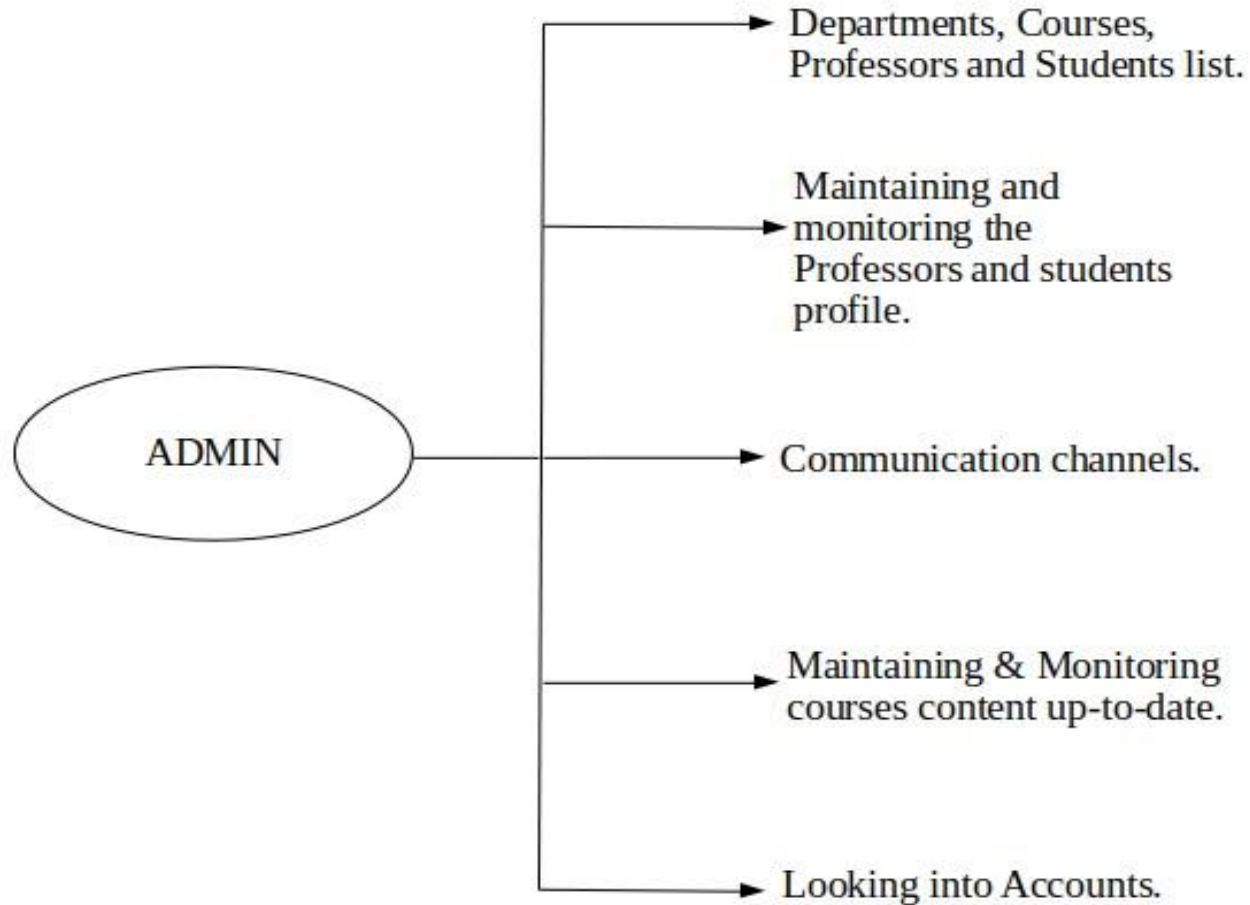
■ Done

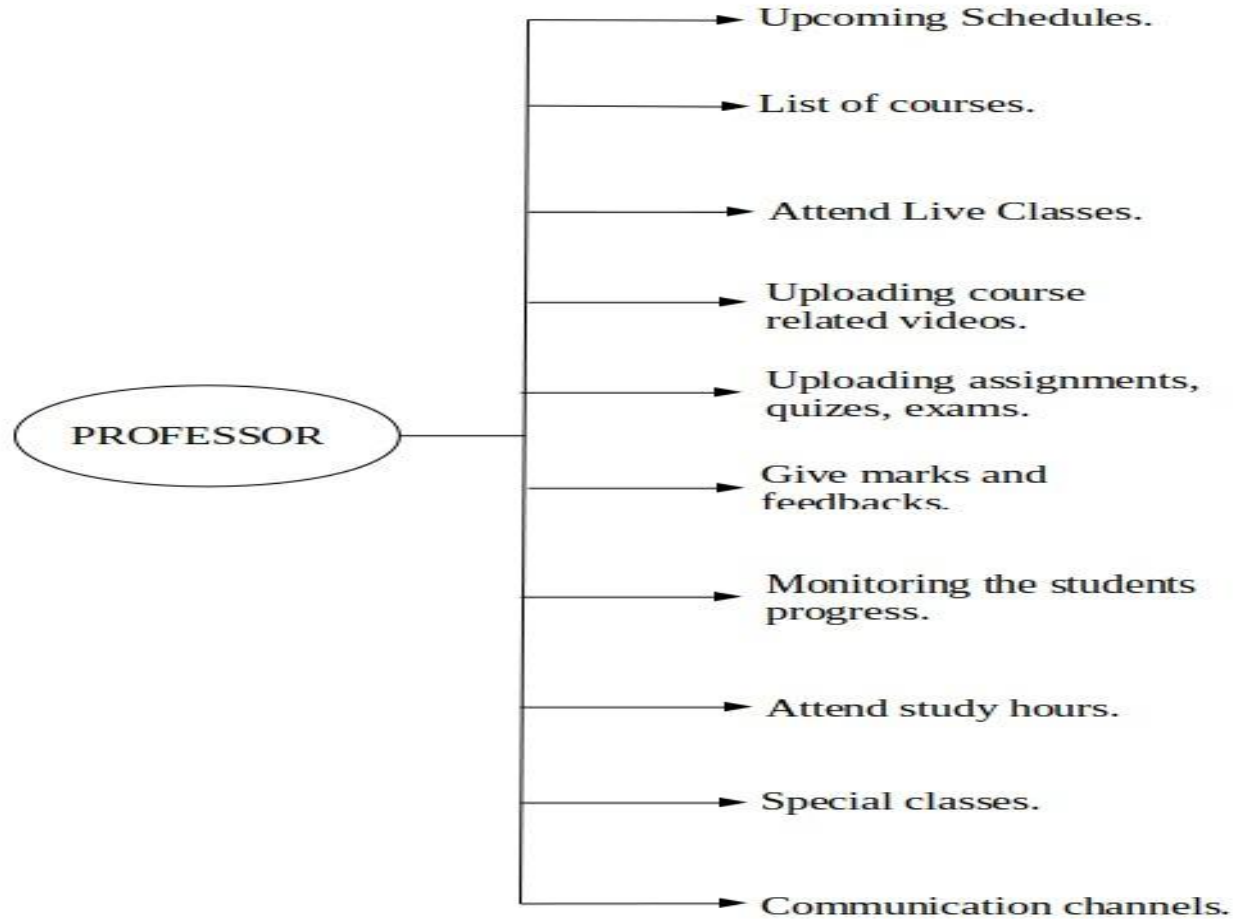
A benchmark to hold on as a reference.

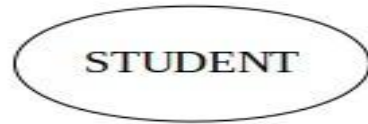
- Our Team has always managed to stay ahead of time to not miss with any deadlines or dues.
- Blue line is the benchmark to hold on as a reference.

Product Cycle





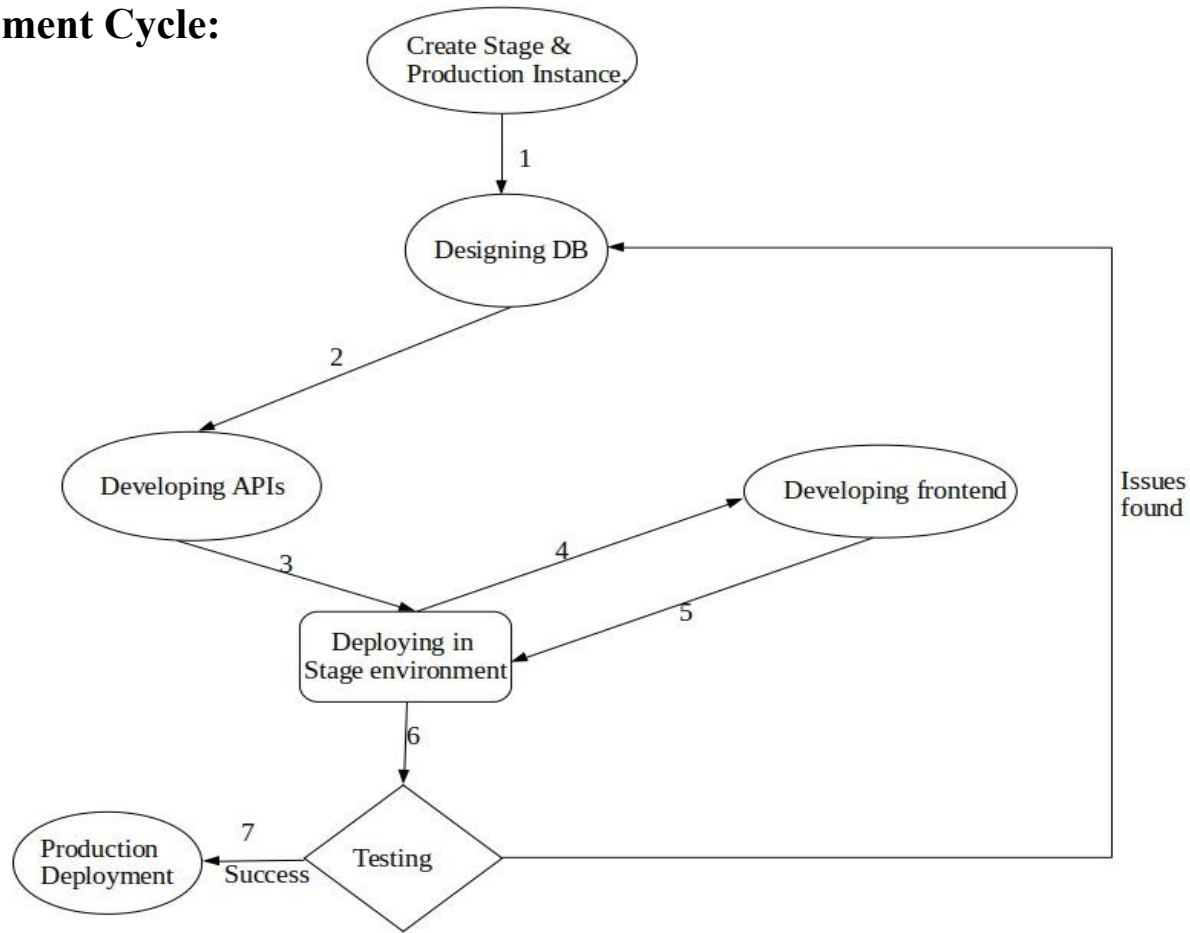




STUDENT

- List of courses.
- Weekly Schedule.
- Personal profile.
- Upload assignments, write exams, submit quizzes.
- Marks.
- Acheivements.
- Workshops.
- Badges.
- Certifications.
- Downloads.
- Important (OR) Saved Materials.
- Handshake.
- Communication Channels.
- Payment details.

Product Development Cycle:



Product Backlog



Task-level: user stories
and defects



Conveys tactical steps
in execution of plan




Primarily for product and
development teams






1 or 2 sprints


Product Backlog:





 **Brewing Technologies**
Software project

PLANNING

-  Roadmap
-  Backlog
-  **Board**

DEVELOPMENT

-  Code

-  Project pages
-  Slack integration
-  Add shortcut
-  Project settings

You're in a team-managed project

[Learn more](#)

Projects / Brewing Technologies

BREW Sprint 2

1. Agenda 2. Team Member Roles and Responsibilities 3. Improvements made from Professor Feedback 4. Problem Statement 5. Project Description 6. Personas (at least 3) 7. MVP 8. Technologies 9. Architecture Diagram 10. Product Backlog - Users Stories - Acceptance Criteria 11. Testcases 12. Sprint Backlog 13. Test Cases 14. Stories completed 15. Stories not completed 16. Metrics 17. Team velocity 18. Burndown Charts 19. Committed/Completed Ratio 20. Retrospective

  Epic ▾

   0 days remaining

Complete sprint



GROUP BY


None ▾

 Insights

TO DO 15 ISSUES


User can upload the course materials/videos.

PROFESSOR

 BREW-36

User can send the announcement to the students.

PROFESSOR

 BREW-37


User can track the students Performance.

PROFESSOR

IN PROGRESS 11 ISSUES


User can edit the Profile Photo.

PROFESSOR

 BREW-33


User can Review the personal Information.

PROFESSOR

 BREW-34

User can change his personal Information.


PROFESSOR

 BREW-35

DONE 6 ISSUES ✓


User can login in to application by entering the username and password.

PROFESSOR

 BREW-31 ✓

User should reset the password by entering the data.





















PROFESSOR

 BREW-32 ✓

User can login in to application by entering the username and password.

 **Quickstart**



<p> BREW-38</p> <p>User can give the feedback.</p> <p>PROFESSOR</p> <p> BREW-39</p>	<p>User can edit the Profile Photo.</p> <p>STUDENT</p> <p> BREW-42</p>	<p>STUDENT</p> <p> BREW-40 ✓</p> <p>User should reset the password by entering the data.</p> <p>STUDENT</p> <p> BREW-41 ✓</p> <p>User can login in to application by entering the username and password.</p> <p>ADMIN</p> <p> BREW-53 ✓</p>	<p>User can view the Dashboard.</p> <p>STUDENT</p> <p> BREW-47</p> <p>User can download the course Materials.</p> <p>STUDENT</p> <p> BREW-48</p> <p>User can earn the badges.</p> <p>STUDENT</p> <p> BREW-49</p>	<p> BREW-44</p> <p>User can edit the Profile Photo.</p> <p>ADMIN</p> <p> BREW-55</p> <p>User can Review the personal Information.</p> <p>ADMIN</p> <p> BREW-56</p> <p>User can change his personal Information.</p> <p>ADMIN</p>	<p>User should reset the password by entering the data.</p> <p>ADMIN</p> <p> BREW-54 ✓</p>
<p>User can view the Dashboard.</p> <p>STUDENT</p> <p> BREW-47</p>	<p> BREW-44</p> <p>User can edit the Profile Photo.</p> <p>ADMIN</p> <p> BREW-55</p>	<p>User should reset the password by entering the data.</p> <p>ADMIN</p> <p> BREW-54 ✓</p>			
<p>User can download the course Materials.</p> <p>STUDENT</p> <p> BREW-48</p>	<p>User can Review the personal Information.</p> <p>ADMIN</p> <p> BREW-56</p>				
<p>User can earn the badges.</p> <p>STUDENT</p> <p> BREW-49</p>	<p>User can change his personal Information.</p> <p>ADMIN</p>				



RETROSPECTIVE

how do YOU think we did?



we were sinking but then learned how to swim!



too many distractions!



coding took a lot longer than usual



PO didn't mess with our plans!



all bugs were checked in time!



we were a little off with the estimation points...

WHAT WENT WRONG ?

- Lack of automation of tasks.
- Enabling Version control.
- Flooding the system with unwanted tools.
- Submission of user stories were delayed this time.
- Time Schedule not matching.

WHAT WENT RIGHT ?

- Having a open communication channel.
- Having a clear vision.
- Recognizing and motivating each other.
- We did our research on all the topics including the tools and technologies used.
- Adapting to the new communication channels(Slack, Jira).

Happy
Learning!



Wiki Page Link

<https://github.com/BrewingTechnologies/QuickLearning/wiki/Home/>