

LiveSpeaker

07/04/2022 [version 1](#)

07/20/2022 [version 2](#)

08/03/2022 [version 3](#)

1. Project Abstract ([Changes in version 2](#))

The application of our group project is LiveSpeaker. The primary function of this app is to provide a platform for people to take notes and review previously recorded videos with the audiences' notes. It also includes different application functions such as uploading PDF files, PowerPoint files, file notes, photos, etc. When the speaker ends the live session, the session will turn to the remote session which allows speakers to upload the recorded video. Our app supports a web or mobile interface. The audience can also take notes during the live session. In the remote session, the audience can view the recorded video and their own notes in the direct session.

2. Customer

The main customers are instructors, teachers, lecturers and students. Teachers are the speakers and the audience would be the students.

Moreover, the main customers are company staff, which can be used in meetings.

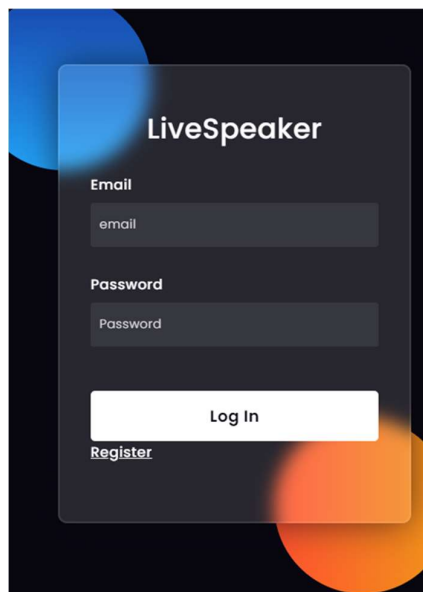
3. Competitive analysis ([Changes in version 2](#))

The application will capture the timestamp of the video and audiences' notes during the live session. Normally, students will take notes on paper or on their mobile devices, but they might lose their notes for some unexpected reasons such as viruses, hardware problems, or deleting files by accident. However, our software is an online application which will avoid this problem. The audience could enter the direct session ID and the access code to view their notes and record session video at any time that they want. For students, this application might help students review. On the review page, the timestamp will help them to remember what they learned in class or in a meeting.

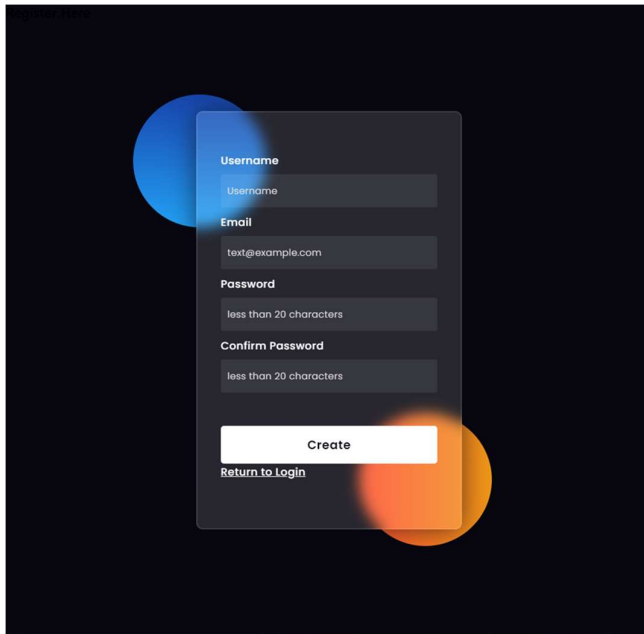
4. Main feature ([Changes in version 2](#), [Changes in version 3](#))

The web application with a reactive web/mobile interface for note-taking during the session. The speaker can post PPT formats, text notes or some other files for engagement. When the speaker ends the session, they could upload the video for students or other users to review. Audience can delete their taken notes or delete the notes that other audience share to them.

5. Screencast of features([Changes in version 2](#), [Changes in version 3](#))



This is a login page, you should enter your email address, and password and press login. if you don't have an account, you can press register and go to the register page.



When you go to the register page, you should enter your email address, name, password, and password again. The password should be the same and between 8-20 characters. Then press the create button. If all the requirements are met it will show the register will succeed. Otherwise, it will fail to register. After that, you can go back to the login page to log in. (only users can register on this page.).

When we log in as an admin, the dashboard on the main page will have administrative functions, one for account management and one for note management.

- Dashboard
- Sessions
- Contacts
- Sign Out. ↗



Dashboard

Management



User
Management



Notes
Management

Session



Create
Session



Join
Session



Review
Session



List
Session

Contacts



Contacts
List

Quick Join

Session ID

Access Code

Go


Quick Review

Session ID

Access Code

Go

On the user management page, admins can delete existing accounts or add new admin-type accounts.




Main Menu

○ Dashboard

○ Sessions

○ Contacts

○ Sign Out 

Users

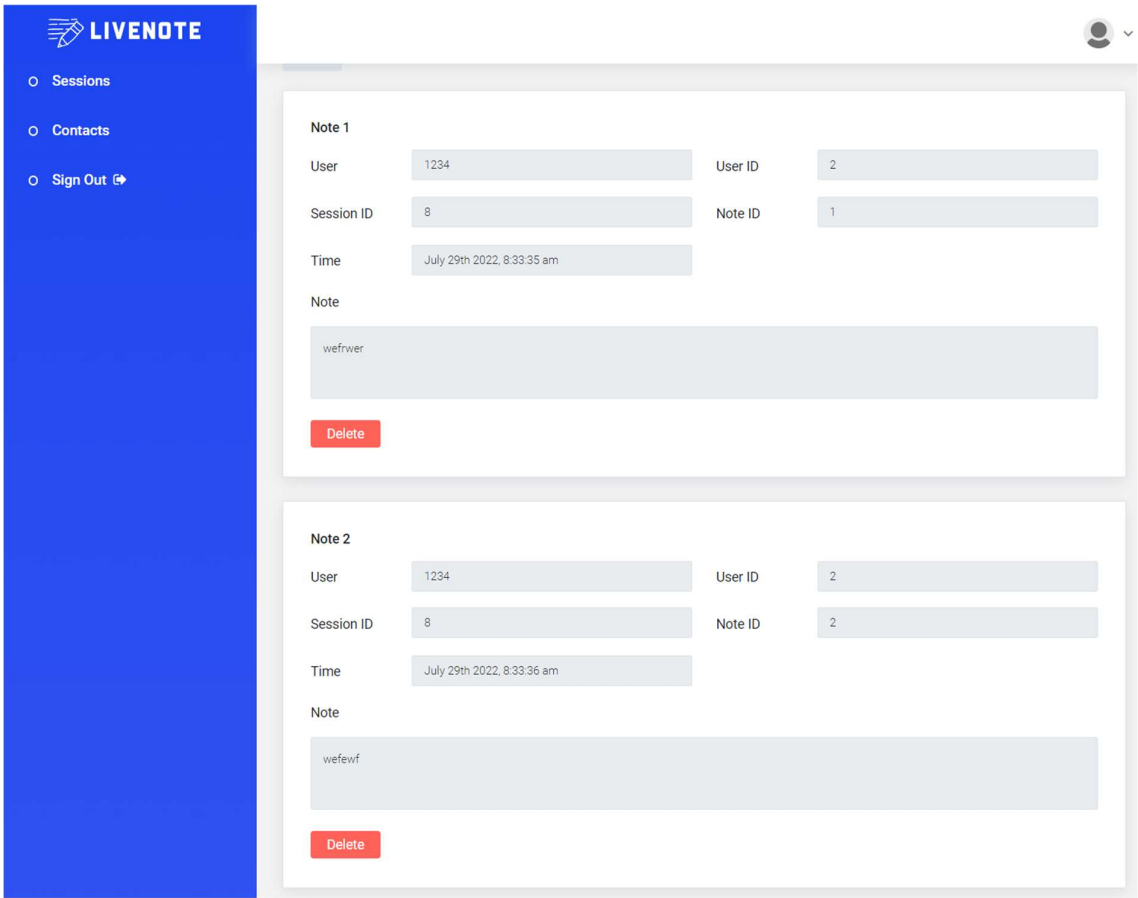
Back

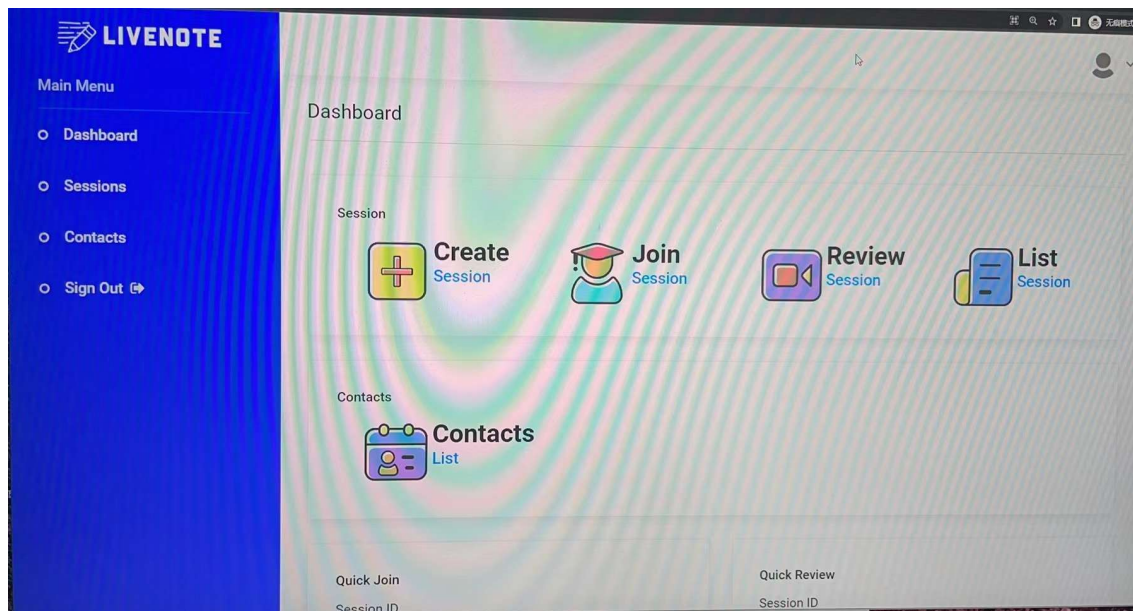
Create New User

Create New Admin

UID	User Name	Email	Member of	
1	123	123@123	user	<div>Delete</div>
2	1234	1234@1234	user	<div>Delete</div>
3	666	666@666	user	<div>Delete</div>


On the Note management page, admins can view and delete any notes sent by anyone.





When you log in by users, you will go to the dashboard page. You can press the “create living session” to create a session. Also, you can press “join in living session” to take notes when this session is in living mode. What’s more, you can press the “review remote video” and you will see the video(if the speaker uploads in remote mode). Contacts are the friend list. On the right top, you can see your account information. Finally, there is a menu on the left. “Dashboard” is this page. When you press session you also can see create, join, review and list selection. log out on the right top. You can also sign out on the menu.

Contacts



Contacts

List

Quick Join

Session ID

Session ID

Access Code

Access Code

Go

Quick Review

Session ID

Session ID


Access Code

Access Code

Go

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When you drag this page below, you can quickly review and join the session.



Main Menu

Dashboard

Sessions

Creat Session
Join Session
Review Session
Session List

Contacts

Sign Out

Create new session

Back

Session Detail

Title

Title

Start time

年 / 月 / 日 --:--

Access code

Access code

File upload

选择文件

未选择任何文件

Upload

Submit

When you press the “create living session” to create a session, you can enter the title, start time and access code of the session and press the submit button. Hint: if you press upload file, you must upload the file then you can submit it. if you don’t want to upload the file you can press upload

and this is an error message and then you can submit. Or don't press select file at the beginning.

[Back](#)

Session 4

Title	lec8
Session ID	4
Access code	123456
Start time	August 2nd 2022, 7:51:00 pm
Session type	wait
Session Video	No Session Video
Attachment file	EMPTY

[Go](#) [Delete](#)

when you press submit, you will go to the session list page. There are three different types of sessions which are live, wait and remote. live means this session is living, the other user can access this session to take notes. wait means this session is not started, the other user cannot access it. Remote means this session is ended. Also, there are two white buttons near each session. First button you can go to this session and on the second one, you can delete it. There are also three headers here. you can go to the new session page, the home page, and log out.

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Session 4

Title

lec8

Session ID

4

Start time

Tue Aug 02 2022 19:51:00 GMT-0700 (Pacific Daylight Time)

Access code

123456

Recording Video Upload

选择文件

未选择任何文件

Upload

When you go to a remote session, you can upload the recorded video.

[Back](#)

Session 4

Title

lec8

Session ID

4

Access code

123456

Start time

August 2nd 2022, 7:51:00 pm

Session type

wait

Session Video

No Session Video

Attachment file


EMPTY

Go


Delete

When you go to the ‘wait’ session, you can start the session(start time must be earlier than the current time. If not, you cannot start it).

Live Session

[Back](#) [Tools](#) 

Session 4

 Session started, click "end" to stop the session.

Title

lec8

Session ID

4

Schedule start time

August 2nd 2022, 7:51:00 pm

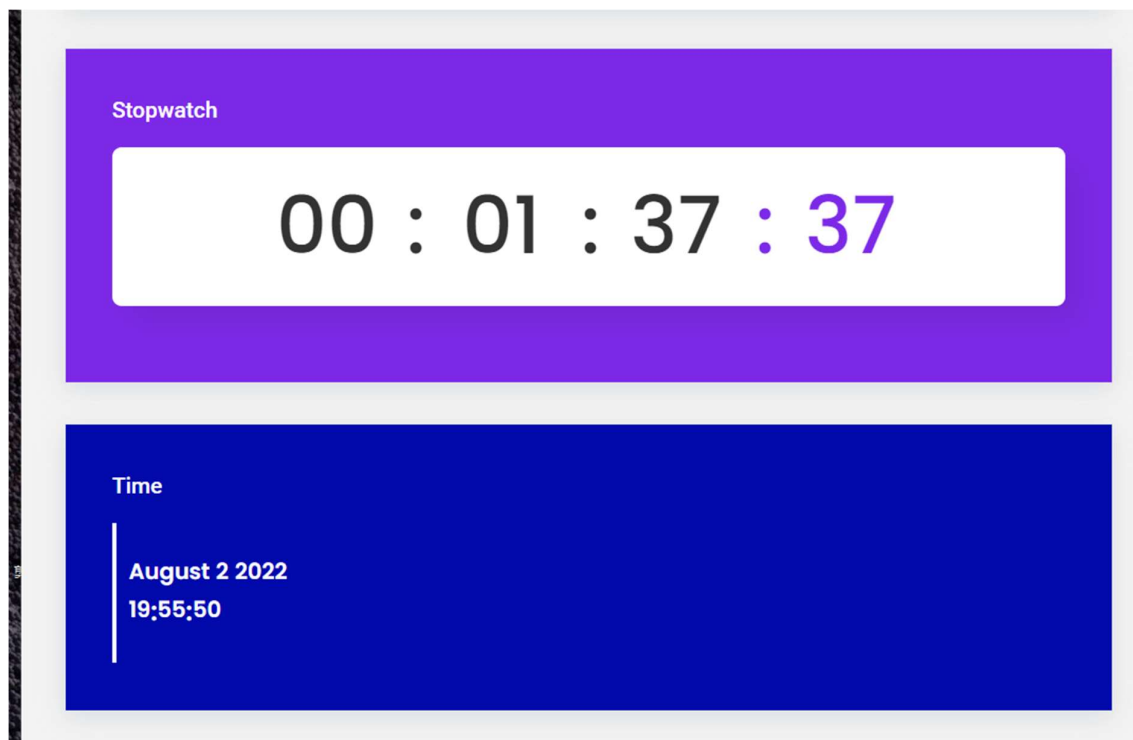
Access code

123456

End

When you start a session, you will go to the living session page. you can end the session to make this session become remote. Also, you can log out on the top right. If you press the tool, the calculator will be provided to you

u which looks like the below.



When you drag this page below, you can see how long this session starts and it starts time.

Sessions

[Back](#)

Review Session

i Session ID and Access code should be given by the session speaker.

i You cannot join the session that was not end or do not have recording video or note.

Session ID

Access Code

Join

Back to the home page, when you press to go to the living session. You should enter the session number and password. (You only can join a session which is in 'live' mode, otherwise, you will jump to the home page).

[Back](#)[Tools](#)

Attachment File

Download

Add Notes

Add

All Contacts

When you succeed to join the living session, you can write notes here.

Sessions

[Back](#)

Review Session

i Session ID and Access code should be given by the session speaker.

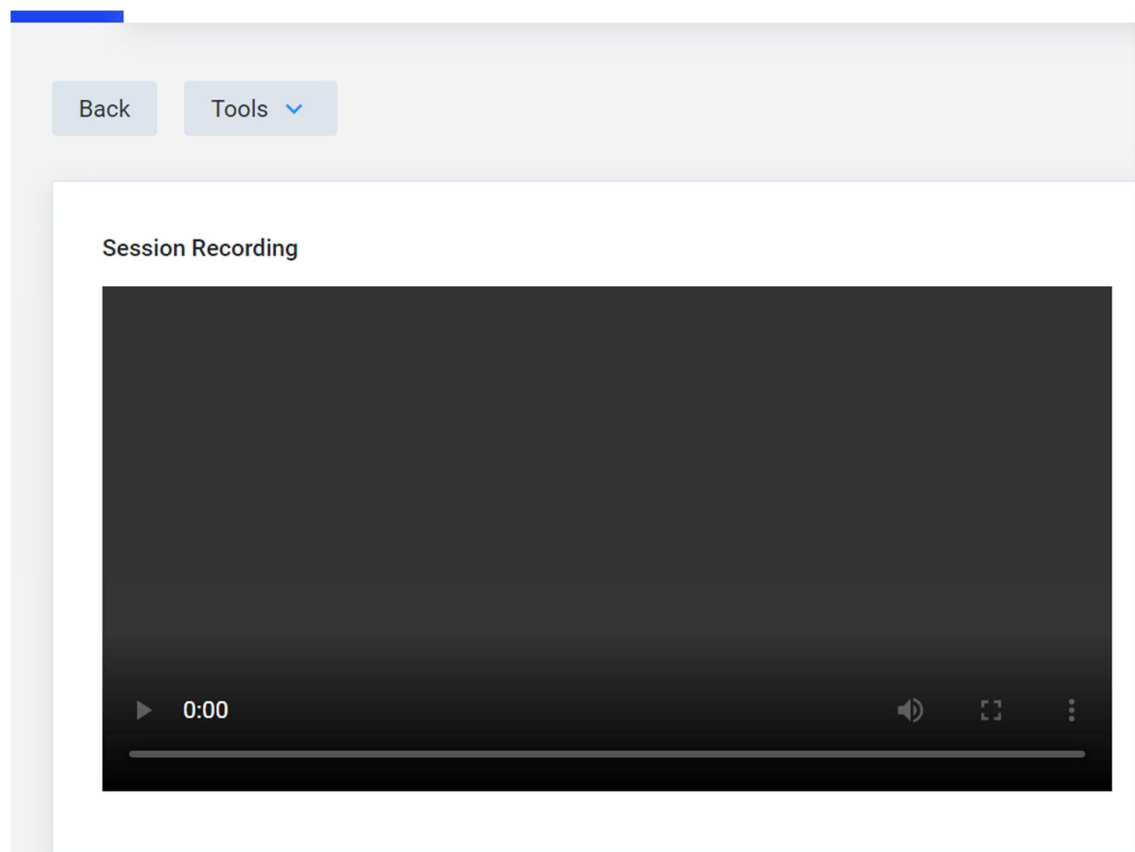
i You cannot join the session that was not end or do not have recording video or note.

Session ID

Access Code

Join

Back to the home page, when you press to go to review the remote session. You should enter the session number and password. (You only can join a session which is in 'remote' mode, otherwise, you will jump to the home page).



Attachment File

 Download

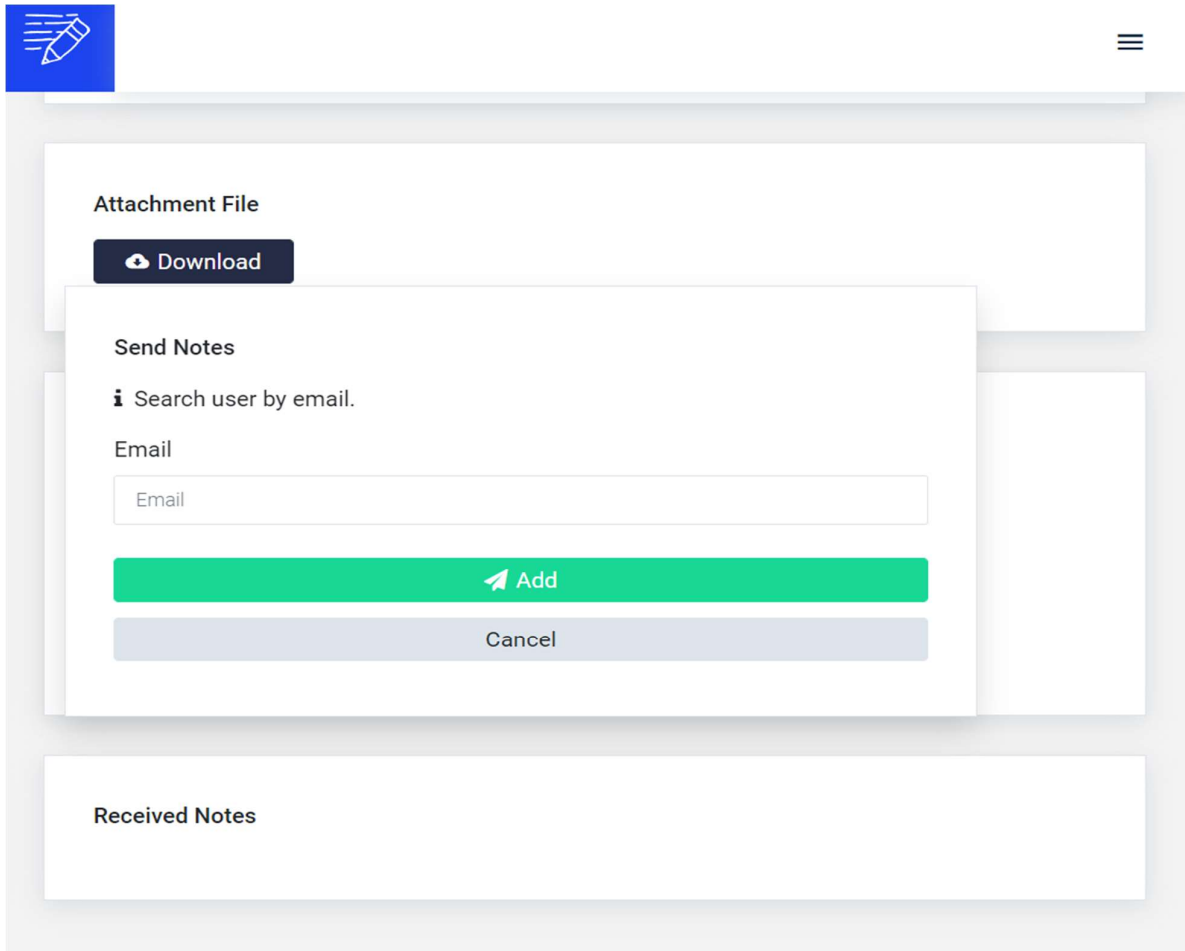
Notes

luoA+ 00:01:29

1223333

Received Notes

When you succeed to join a remote session. If the speaker uploads a video, you can see the video here. Also, if you write notes, you also can see the notes you write. If there is no video, you can only see the notes you write and notes sent others to you. If there is no video and no notes here, it will jump to the error page and then back to the home page. what's more, if the speaker uploads a file you can download it. Also, if someone sends your notes you can also see them. you can delete both your notes and other people's sent notes.



For sharing note, each note has a corresponding share button, after pressing the 'share' button, we need to enter the email address of an existing user, and then press the 'add' button, the note will be sent.

LIVENOTE

Main Menu

- Dashboard
- Sessions
- Contacts
- Sign Out ↗

Contacts

Back

Add Contacts

📧 Add contact by email.

Email

Add

All Contacts

Name	Email	
1234	1234@1234	Delete

For adding friend, we need to enter the email address of an existing user, and then press the ‘add’ button, the friend will show under the All Contacts and she can delete it. If the email does not exist, jump to error page and tell us: Cannot find this user, please verify your input.

6. User Stories

Version 1([Changes in version 2](#), [Changes in version 3](#))

Story 1 (points:1, Need to make sure all fields are correct)

- Name: Kate
- Actor: User
- Precondition: If she selects the ‘register’, she needs to fill in all the required fields (email address (must be valid which include @), password (between 8-20 characters, name) and then click the “register” button.

- Postcondition: Jump to succeed register page or jump to the error hint page.

When you go to the register page, you should enter your email address, name, password, and password again. The password should be the same and between 8-20 characters. Then press the create button. If all the requirements are met it will show the register will succeed. Otherwise, it will fail to register.

Test 1:

Input:

- email address: 123@123
- name: 123
- password: 12345678
- password: 12345678

Test:

- Validate the user input to be not null.
- Validate the password between 8-20 characters.
- Validate whether the two passwords are the same or not.

Output:

Successful registration.

Story 2 (point:2, Need to do auth will type of users)

- Name: Kate
- Actor: User
- Precondition: If she selects login, she needs to fill in all the required fields (email address, password) and then click the "login" button.
- Postcondition: Jump to the home page or jump to the error hint page.

This is a login page, you should enter your email address, and password and press login. if you don't have an account, you can press register and go to the register page.

Test:

Input:

- email address:123@123
- password: 12345678.

Test:

- Validate the user input to be not null.
- Validate the email address that exists.
- Validate password correctly.

Output:

Go to the home page.

Story 3 (point:2, Need to connect to a database table)

- Name: Peter
- Actor: Admin
- Precondition: Peter is an administrator from the IT department who is managing the live speaker app. After login, if he chooses to press delete.
- Postcondition: This user will be deleted.

On this page, admins can see all existing accounts and they can delete it by press deleting button.

Test:

Input:

- delete button
- userid: 1

Test:

- Validate the user uid to be not null.

Output:

Delete uid 1 user.

Story 4 (point:1, Jump page)

- Name: Peter
- Actor: Admin
- Precondition: He press 'Add New Admin'
- Postcondition: jump to the register admin page.

When you go to the register page, you should enter your email address, name, password, and password again. The password should be the same and between 8-20 characters. Then press the create button. If all the requirements are met it will show the register will succeed. Otherwise, it will fail to register.

Story 5 (point:1, Jump page)

- Name: Peter
- Actor: Admin
- Precondition: He press 'View Comment'
- Postcondition: jump to the all notes page.

On this page, admins can view and delete any notes sent by anyone, and they can click 'Back to table' to return to the table page.

Story 6(point:1, Jump page)

- Name: Peter
- Actor: Admin
- Precondition: He presses the delete button on all comments pages.
- Postcondition: This comment will be deleted.

On this page, admins can view and delete any notes sent by anyone, and they can click 'Back to table' to return to the table page.

Test:

Input:

- delete button
- comment id: 1

Test:

- Validate the comment id to be not null.

Output:

Delete comment 1 comment.

Version 2 (Changes in version 3)

Story 7 (Create living session)

- Name: Kate
- Actor: Speaker
- Precondition: She presses the “create living session” to jump to the create new session page. She should enter the title, start time and access code of the session and press submit button.
- Postcondition: Jump to session list.
- Velocity measurement: **(point:2)** Insert the iso time string collected from user input into the database. We search several methods to fix the problem of format conversion.

When you press the “create living session” to create a session, you can enter the title, start time and access code of the session and press the submit button.

Test :

Input:

- Title:lecl
- Start time: 2022/7/19 4:20 pm
- Access code: 123456

Test:

- Validate the title to be not null.
- Validate the start time to be not null.

- Validate the access code to be not null and the access code needs to be greater than 6 and less than 20.

Output:

Go to the session list page.

Story 8 (Go to different session pages with different session types)

- Name: Kate
- Actor: Speaker
- Precondition: She presses the “go to the session”.
- Postcondition: If session mode is live, the system will jump to the living session page. If session mode is waiting, the system will jump to session wait to the start page. if session mode is remote, the system will jump to the upload video page. If the session mode is ‘remote’ and the speaker has already uploaded the recorded video, the system will jump to the page that shows the recorded video.
- Velocity measurement: **(point:3)** When the speaker clicks the go to session button, the system needs to verify different session types in order to go to different pages for the speaker. We do a lot of discussions about the conditions.

There are three different types of sessions which are live, wait and remote. live means this session is living, the other user can access this session to take notes. wait means this session is not started, the other user can not access it. Remote means this session is ended.

Test:

Input:

- Click the ‘go to session’ button

Test:

- Validate the session type is ‘live’.
- Validate the session type is ‘remote’.
- Validate the session type is ‘wait’.

- Validate the session type is 'remote' and validate the video status is 'video_exist' .

Output:

If session mode is 'wait' , the system will jump to session wait to the start page. If session mode is 'live' , the system will jump to the live session page. If session mode is remote without video, the system will jump to the upload video page. If session mode is 'remote' with uploaded video, the system will jump to review the video page.

Story 9 (Delete session)

- Name: Kate
- Actor: Speaker
- Precondition: She presses the "delete session" .
- Postcondition: This session and the audience's notes in this session will be deleted.
- Velocity measurement: (point:1) Delete session in the database.

On this page, admins can view and delete any session created by you. After that, you can not access this session.

Test:

Input:

- Click the 'delete session' button.

Test

- Validate session is not null.

Output:

Delete this session.

Story 10 (Create session)

- Name: Kate

- Actor: Speaker
- Precondition: When you go to the ‘wait’ session, you press start session.
- Postcondition: Start time must be earlier than the current time and jump to the living session.
- Velocity measurement: **(point:2)** We discuss the condition of how to make the system jump to a direct webpage.

When you go to the ‘wait’ session, you can start the session. You can choose the start time(the start time must be earlier than the current time. If not, you cannot start it).

Test:

Input:

- Session start time:2022/7/19, 4:20 pm
- Current time 1: 2022/7/19, 4:21 pm
- Current time 2: 2022/7/19, 3:21 pm

Test:

- Validate is current time later than the session time

Output:

1. Current time 1 is later than session time:

The system will jump to the living session page.

2. Current time 2 is earlier than session time:

The system will send a message that shows “The session is not ready” .

Story 11 (session end)

- Name: Kate
- Actor: Speaker
- Precondition: When you go to the living session, you press the end session.

- Postcondition: The system will jump to the session list and change the session type to remote.
- Velocity measurement: **(point:2)** The system will end the session and change the session type to remote in the database. The system will also jump to the session list page.

When you start a session, you will go to the living session page. you can end the session to make this session become remote. The system will jump to the session list page and change the current session type to remote.

Test:

Input:

- Click the end session on the live session page.

Test:

- Validate whether the current session type will change to remote.

Output:

The system will jump to the session list page and change the current session type to remote.

Story 12 (upload video in a remote session)

- Name: Kate
- Actor: Speaker
- Precondition: If Kate clicks the 'go to session' button with the remote session type, but the video status is null/video exists.
- Postcondition: The system will move to a video uploaded webpage or move to a review video page.
- Velocity measurement : **(point:1)** The system needs to verify the condition and jump to correct web pages.

When the session type is remote and the video status is null, the system will jump to the video upload webpage. When the session type is remote and the video status is 'video exist', the system will jump to a web page that includes the video that Kate uploaded for this session.

Test:

Input:

- Click the go-to session button on the list session page.

Test:

- Validate whether the current session type is remote and the video status is null.

Output:

case 1:

When the session type is remote and the video status is null, the system will jump to the video upload webpage.

case 2:

When the session type is remote and the video status is 'video exist', the system will jump to a web page that includes the video that Kate uploaded for this session.

Story 13 (Upload video API)

- Name: Kate
- Actor: Speaker
- Precondition: Kate presses 'choose file' and clicks the 'upload' buttons on the upload video page.
- Postcondition: Kate chooses an mp4 video to upload. If the upload is successful, it will move to the session list page. If the upload is not successful, it will stay on the upload page.
- Velocity measurement : **(point:3)** We find a lot of resources about upload API that cost 2 days to finish this part.

When you go to a remote session, you can upload the recorded video. After you upload it, users can see the video you upload.

Test:

Input:

- Click the upload button on the upload page.

Test:

- Validate whether the video is uploaded successfully.

Output:

case 1:

When the video is not successful, the system will show an alert that tells you the upload is not successful and stay on the upload page.

case 2:

When the video is successful, the system will jump to the session list page and change the video status to exist.

Story 14 (Join the living session)

- Name: Kate
- Actor: Audience
- Precondition: When she presses the join living session on the home page, she enters the session number and password.
- Postcondition: jump to the notes page or back to the home page.
- Velocity measurement : (point:2) The system needs to verify whether the session is live or not.

when you press to go to the living session. You should enter the session number and password. (You only can join a session which is in 'live' mode, otherwise, you will jump to the home page).

Test:

Input:

- session number: 1
- password: 123456

- Case 1- session type: live
- Case 2- session type: wait
- Case 3- session type: remote

Test:

- Validate the session number is not null.
- Validate the password is correct.
- Validate the session is in the 'live' mode.

Output:

Case 1:

Jump to the notes page

Case 2:

The system sends you a message that says "Please wait until the session starts!"

Case 3:

Back to the home page

Case 4:

The session ID and password are not correct. The system sends you a message that says "Incorrect session ID or Password"

Story 15 (Review remote video)

- Name: Kate
- Actor: User
- Precondition: When she presses to review the remote video on the home page, she enters the session number and password.
- Postcondition: jump to a webpage that contains the recorded video and notes or return to the homepage.
- Velocity measurement : (point:2) Verify whether the session is live or not and verify the session id and access code are correct or not.

When you succeed to join a remote session. If the speaker uploads a video, you can see the video here. Also, if you write notes, you also can see the notes you write. If there is no video, you can only see the notes you write. If there is no video and you haven't written notes here, it will jump to the error page and then back to the home page.

Test:

Input:

- session number: 1
- password: 123456
- Case 1- session type: remote
- Case 2- session type: wait/live

Test:

- Validate the session number is not be null
- Validate the password correct
- Validate the session is in 'remote' mode
- Validate whether the speaker posts a video or not
- Validate whether the user writes notes or not.

Output:

Case 1:

Jump to the notes and video page

Case 2:

Back to the home page

Case 3:

The session ID and password are not correct. The system sends you a message that says "Incorrect session ID or Password"

Version 3

Story 16 (Share note to others)

- Name: Kate
- Actor: Audience
- Precondition: Already has at least one note to share, and after clicking on the share button, she needs to input the email she wants to send.
- Postcondition: If the note is sent successfully to the review session of the corresponding user. She will stay on the same page.
- Velocity measurement : **(point:2)** Verify whether the email exists or not.

Each note has a corresponding share button, after pressing the 'share' button, we need to enter the email address of an existing user and then press the 'add' button, and the note will be sent.

Test

Input:

- A note: 'hello world'
- Other user's email
- Case1-the email is exist
- Case2-the email is not exist

Test:

- Validate whether the email exists or not

Output:

Case1:

The note is sent successfully to the review session of the corresponding user.

Case2:

Story 17(add friends)

- Name: Kate
- Actor: Audience
- Precondition: Enter a friend's email and press the 'add' button.

- Postcondition: If add successfully, the friend will show under the contacts list..
- Velocity measurement : **(point:2)** Verify whether the email exists or not.

We need to enter the email address of an existing user and then press the 'add' button, the friend will show under the contacts list. If the email does not exist, jump to an error page and tell us: Cannot find this user, please verify your input.

Test

Input:

- Other user' s email
- Case1-the email is exist
- Case2-the email is not exist

Test:

- Validate whether the email exists or not

Output:

Case1:

Add friend successfully.

Case2:

Jump to an error page and tell us: Cannot find this user, please verify your input.

Story 18(delete shared notes on the review session page)

- Name: Kate
- Actor: Audience
- Precondition: At least one note from others is already shown under the shared notes list and she needs to click the 'delete' button.
- Postcondition: The shared note disappears from the shared notes list.

- Velocity measurement : **(point:1)** Verify whether the note exists or not.

On the review_session page, we can delete shared notes from others anytime we want.

Test

Input:

- A shared note: 'hello world'

Test:

- Validate whether the note exists or not

Output:

The shared note disappears from the shared notes list.

Story 19(upload file on start session page)

- Name: Kate
- Actor: speaker
- Precondition: upload the file and press the upload button
- Postcondition: If added successfully, a successful message will \pop-ups.
- Velocity measurement : **(point:1)** Verify whether the file exists or not.

If you press upload file, you must upload the file then you can submit it. if you don't want to upload the file you can press upload and this is an error message and then you can submit. Or don't press select file at the beginning.

Test

Input:

- files

Test:

- Validate whether the files exist or not

Output:

Casel:

Add files successfully.

Case2:

If not upload a file, this session will not have a file that the audience can download.

Story 20(download file in live session)

- Name: Kate
- Actor: Audience
- Precondition: press the download button while in the live session
- Postcondition: If the speaker uploads a file before the start session, we can download it.
- Velocity measurement : **(point:1)** Verify whether the file exists or not.

On this page, if the speaker has already uploaded a file, we can see the file. when we press this file, we can download it.

Test

Input:

- files

Test:

- Validate whether the files exist or not

Output:

Casel:

Download files successfully.

Case2:

If not upload a file, this session will not have a file that the audience can download.

Story 21(download file in remote)

- Name: Kate
- Actor: Audience
- Precondition: press the download button while in the remote session
- Postcondition: If the speaker uploads a file, we can download it.
- Velocity measurement : (point:1) Verify whether the file exists or not.

On this page, if the speaker has already uploaded the file, we can see the file. when we press this file, we can download it.

Test

Input:

- files

Test:

- Validate whether the files exist or not

Output:

Case1:

Download files successfully.

Case2:

If not upload a file, this session will not have a file that the audience can download.

Story 22(delete notes when we take notes)

- Name: Kate
- Actor: Audience
- Precondition: press the delete notes button in a live session
- Postcondition: the notes will be deleted.
- Velocity measurement : **(point:1)** Verify whether the notes exist or not.

On this page, if the audience writes notes, she can delete them immediately.

Test

Input:

- delete button

Test:

- Validate whether the notes exist or not

Output:

Case1:

delete notes successfully.

Story 23(delete notes in a remote session)

- Name: Kate
- Actor: Audience
- Precondition: press the delete notes button in a remote session
- Postcondition: the notes will be deleted.
- Velocity measurement : **(point:1)** Verify whether the notes exist or not.

After the session, if she reviews the notes. If she wants to delete notes, she can delete it.

Test

Input:

- Click the delete button

Test:

- Validate whether the notes exist or not

Output:

Casel:

delete notes successfully.

Story 23(delete friends)

- Name: Kate
- Actor: Audience
- Precondition: Already has a friend under the contacts list, then she can click the 'delete' button to delete friends.
- Postcondition: Deleted friends will disappear from the contacts list.
- Velocity measurement : (point:1) Verify whether the user exists or not.

After adding a friend, users can delete every friend when they want.

Test:

Input:

- A friend email

Test:

- Validate whether the friend exists or not.

Output:

The friend disappears from the contact list.

Future user story in future iteration 2: (version 1)

Paul is an instructor, after she/he login into our web app, he clicks the 'live section' to allow his/her students to join the session and take notes.

He can also upload recorded videos.

His students can share notes.

He can delete existing videos

He can invite his students to watch live videos.

Future user story in iteration 3: (version 2)

Paul is a speaker. On the 'create session' page, he could click the "upload button", then we could upload some PPT, pdf or some other files for engagement.

Dennis is a user. When he joins Paul's live session, we could 'click the file' Paul uploads that might be a PPT or some other files which will use during the live session.

Dennis is a user. When we go to the review session page, we could click a 'share button' to share notes. He needs to enter his friend's email to share his notes.

Alan is also a user. When he login our application, we will see a notification that appears on the top-right side of the home page. These are the notes that Dennis shares with him.

