

Group Name: H11B_DINGO

Group Members: Max Xue, Elizabeth Zeng, Jinny Seo, Bonnie Qu, Kevin Van

[Requirements] Elicitation

Interviewer: Bonnie Qu

Interviewee1: Wendy Park

Email: wendy.park4@education.nsw.gov.au

What tool do you currently use that has similar functionality to Seams?	Slack and Discord
How often do you use the tool?	I use Slack every day for school and Discord everyday for Tutoring and my personal life.
Comparing those tools, how would you say it affected your teamwork?	I find that Slack is more focused around teamwork which allows the communication to be driven efficiently and progressively. Whilst, I am also satisfied with Discord's functionality, its file size limit poses a flaw.
What problems do you think you might face using Seams?	<ul style="list-style-type: none">- Concerns about security issues such as no blocking functions are features- No call features which might make working as a group hard
Any additional features you want?	<ul style="list-style-type: none">- Reassuring notifs popping up whenever I want to delete as sometimes i accidentally delete a message- Default emojis- Voice messages- Calendar functions

Interviewer: Jinny Seo

Interviewee2: Peter Seo

Email: jakehd@gmail.com

What tool do you currently use that has similar functionality to Seams?	I have used Microsoft Teams, Discord, Figma, Atlassian jira, and Kakaotalk
How often do you use the tool?	Pretty much every day for group work, projects, and chatting with friends
Comparing those tools, how would you say it affected your teamwork?	Using discord, the screen share functionality helped a lot. During team project, sharing screen helped a lot as it made a lot easier to share individuals' progress and codes
What problems do you	<ul style="list-style-type: none">- Concerns about security issues such as where other users

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think you might face using Seams?	<ul style="list-style-type: none">- can save individuals' profile pictures etc- Uncomfortable as there is no mobile app
Any additional features you want?	<ul style="list-style-type: none">- Screen sharing- Diagram drawing- Showing password when typing in password in the field- Dark mode- Calendar functions

Interviewer: Jinny Seo

Interviewee3: Jane Pavlovic

Email: janepavlovic89@gmail.com

What tool do you currently use that has similar functionality to Seams?	I use Microsoft Teams, wechat, and Discord
How often do you use the tool?	I use them everyday for academic purposes and chatting with friends
Comparing those tools, how would you say it affected your teamwork?	Teams has significantly boosted the efficiency of teamwork as it easily allowed all group members to join a call, send chats/images, mention and we could see who contributed and has not.
What problems do you think you might face using Seams?	<ul style="list-style-type: none">- Not being able to find password when I forgot the password- Uncomfortable as there is no mobile app- Being invited to channel directly, not being able to refuse to get invited
Any additional features you want?	<ul style="list-style-type: none">- Simple logging in mode via google, apple etc- Keeping user logged in for a long time- Blocking features- Dark mode- Submitting files

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[Requirements] Analysis & Specification - Use Cases

Wendy Park

User story:

As a Year 12 student with the HSC coming up, I want to be able to stay on track with the workload from both school and tutoring so I want to create a new task in the to-do list for myself.

Use Case:

Focused Use case: Add tasks to-do list

Pre-requisites: The user must be a valid member of Seams and is active in at least one channel or dm.

Acceptance Criteria:

- Add tasks to to-do list
- Able to view already inserted tasks on to-do list
- Tasks will be updated on to-do list with each detail
- Tasks will be listed successfully in the to-do list

Valid Scenario:

Step 1: User clicks on the button on the to-do list

Step 2: User can view if already assigned tasks

Step 3: Seams will ask user to enter their task description (context, due date)

Step 4: Seams backend will verify if the user is valid in the channel or dm

Step 5: Seams backend approves request successfully

Step 6: Seams will update to-do list with the new task

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Peter Seo

User story:

As a third-year UNSW student studying computer science, I want it to be easy to work as a group where I can easily track with other team members' progress to finish the assignment at an efficient pace.

Use Case:

Focused Use case: start voice/video call/screen share

Pre-requisites: The user must be a valid member of Seams and is active in at least one channel or dm.

Acceptance Criteria:

- Add a start call button
- User has the choice to start a video or voice call
- User can share screen on both video and voice call
- User can only end call after stopping their screen share
- User can choose what screen they want to share if they have multiple options

Valid Scenario:

Step 1: User clicks on the button on the start voice/video call

Step 2: User2 accepts the request to join a voice/video call

Step 3: User can start to screen share

Step 4: Seams will ask User2 is they want to view User's screen

Step 5: User2 clicks on the button to accept to view User's screen

Step 6: User2 can now view User's screen

Jane Pavlovic

User story:

As a second-year university student who is frustrated by the inability to send a file causing hinderments in the efficiency of group work.

Use Case:

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Focused Use case: submitting a file

Pre-requisites : The user must be a valid member of Seams and is active in at least one channel or dm.

Acceptance Criteria:

- Add a “Add file” button
- User can choose the files they want to be sent
- Other user can open the file that was sent
- Program makes sure that only certain types of files are able to be sent
- File successfully ends up in specified channel/DM chat

Valid Scenario:

Step 1: User clicks on button to add a file

Step 2: User chooses to add their specified file

Step 3: User presses enter to send file

Step 4: File is now sent in a channel or dm

[Requirements] Validation

Wendy Park Response:

The main problem I would have preferred Seams to solve is to better support learning or teaching through features such as calendars and voice messages so it's easier to track school/tutoring tasks as well as communicate. I feel like if all the features in the acceptance criteria were added, school work and tutoring work would be greatly supported as I am better able to track my tasks and due dates.

Peter Seo Response:

I really like the features that have been suggested in the acceptance criteria. If Seams is to be used as a tool for teamwork, the ability to draw shared diagrams and other data visualisation tools would greatly help team members communicate their ideas. The ability to share screens would also greatly help pair or team programming, which is something I find very useful as a Computer Science student.

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Jane Pavlovic Response:

I really enjoyed all the quality of life features suggested in the acceptance criteria since a main problem I had with Seams' current state is I was not able to submit a file in a channel or direct message. To be able to send a file on the same platform would greatly boost my productivity as I wouldn't need to waste time sending it on another platform.

[Design] Interface Design

Name & Description	HTTP Method	Data Types	Exceptions
user/todolist/create Creates a to-do list for the given authorised user	POST	Parameters: { token, list_name } Return Type: { list_id }	InputError when: <ul style="list-style-type: none">length of name is less than 1 or more than 20 characters AccessError when: <ul style="list-style-type: none">token is invalid
user/todolist/add Adds an item to the given to-do list for the given authorised user	POST	Parameters: { token, list_id, task_descr, due_date } Return Type: { }	InputError when: <ul style="list-style-type: none">list_id does not refer to a valid to-do listlength of task_descr is less than 1 or over 100 characters AccessError when: <ul style="list-style-type: none">token is invalid
user/todolist/remove Removes an item to the given to-do list for the given authorised user	POST	Parameters: { token, list_id, task_descr, due_date } Return Type: { }	InputError when: <ul style="list-style-type: none">list_id does not refer to a valid to-do listlength of task_descr is less than 1 or over 100 characterstask_descr and due date does not match an existing task_descr and due date AccessError when: <ul style="list-style-type: none">token is invalid
channel/call/create Creates a call for the	POST	Parameters: { token, channel_id }	InputError when: <ul style="list-style-type: none">channel_id does not refer to a valid

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given channel		Return Type: { call_id }	<ul style="list-style-type: none">channelauthorised user is not a member of the channel AccessError when: <ul style="list-style-type: none">token is invalid
channel/call/join Joins a call of a given a call_id of an active call in a channel with given channel_id	POST	Parameters: { token, channel_id, call_id } Return Type: { }	InputError when: <ul style="list-style-type: none">channel_id does not refer to a valid channelauthorised user is not a member of the channelcall_id does not refer to an active call in channel AccessError when: <ul style="list-style-type: none">token is invalid
channel/call/leave Leaves a call of a given a call_id of an active call in a channel with given channel_id	POST	Parameters: { token, channel_id, call_id } Return Type: { }	InputError when: <ul style="list-style-type: none">channel_id does not refer to a valid channelauthorised user is not a member of the channelauthorised user is not a member of the callcall_id does not refer to an active call in channel AccessError when: <ul style="list-style-type: none">token is invalid
channel/call/video Allows the user to turn their camera on or off in the given call_id of an active call in a channel with given channel_id	POST	Parameters: { token, channel_id, call_id, is_video_on } Return Type: { }	InputError when: <ul style="list-style-type: none">channel_id does not refer to a valid channelauthorised user is not a member of the channelcall_id does not refer to an active call in channel AccessError when:

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			<ul style="list-style-type: none">token is invalid
channel/call/screenshare Allows the user to turn their screen-share on or off in the given call_id of an active call in a channel with given channel_id	POST	Parameters: { token, channel_id, call_id, is_screenshare_on } Return Type: { }	InputError when: <ul style="list-style-type: none">channel_id does not refer to a valid channelauthorised user is not a member of the channelcall_id does not refer to an active call in channel AccessError when: <ul style="list-style-type: none">token is invalid
dm/call/create Creates a call for the given dm	POST	Parameters: { token, dm_id } Return Type: { call_id }	InputError when: <ul style="list-style-type: none">dm_id does not refer to a valid dmauthorised user is not a member of the channel AccessError when: <ul style="list-style-type: none">token is invalid
dm/call/join Joins a call of a given a call_id of an active call in a dm with given dm_id	POST	Parameters: { token, dm_id, call_id } Return Type: { }	InputError when: <ul style="list-style-type: none">dm_id does not refer to a valid dmauthorised user is not a member of the dmcall_id does not refer to an active call in dm AccessError when: <ul style="list-style-type: none">token is invalid
dm/call/leave Leaves a call of a given a call_id of an active call in a dm with given dm_id	POST	Parameters: { token, dm_id, call_id } Return Type: { }	InputError when: <ul style="list-style-type: none">dm_id does not refer to a valid dmauthorised user is not a member of the dmauthorised user is not a member of the callcall_id does not refer to an active call in dm AccessError when: <ul style="list-style-type: none">token is invalid

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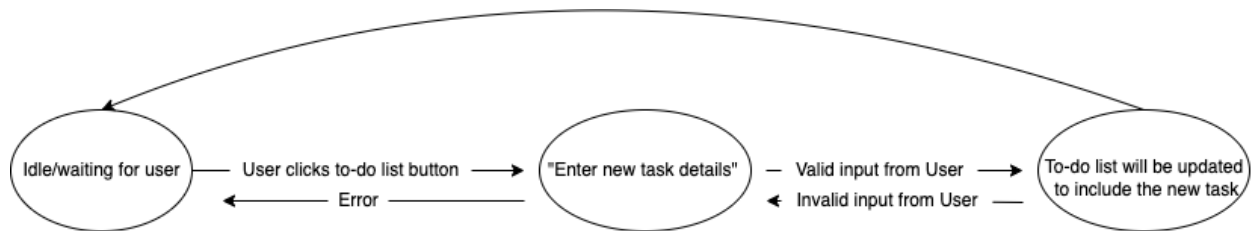
dm/call/video Allows the user to turn their camera on or off in the given call_id of an active call in a dm with given dm_id	POST	Parameters: { token, dm_id, call_id, is_video_on } Return Type: { }	InputError when: <ul style="list-style-type: none">dm_id does not refer to a valid dmauthorised user is not a member of the dmcall_id does not refer to an active call in dm AccessError when: <ul style="list-style-type: none">token is invalid
dm/call/screenshare Allows the user to turn their screen-share on or off in the given call_id of an active call in a dm with given dm_id	POST	Parameters: { token, dm_id, call_id, is_screenshare_on } Return Type: { }	InputError when: <ul style="list-style-type: none">dm_id does not refer to a valid dmauthorised user is not a member of the dmcall_id does not refer to an active call in dm AccessError when: <ul style="list-style-type: none">token is invalid
file/send Send a file from the authorised user to the channel specified by channel_id	POST	Parameters: { token, channel_id, file } Return Type: { }	InputError when: <ul style="list-style-type: none">channel_id does not refer to a valid channelauthorised user is not a member of the channelfile size is larger than 100mb AccessError when: <ul style="list-style-type: none">token is invalid
file/senddm Send a file from the authorised user to the channel specified by cm_id	POST	Parameters: { token, dm_id, file } Return Type: { }	InputError when: <ul style="list-style-type: none">dm_id does not refer to a valid channelauthorised user is not a member of the dmFile size is larger than 100mb AccessError when: <ul style="list-style-type: none">token is invalid

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[Design] Conceptual Modelling (State)

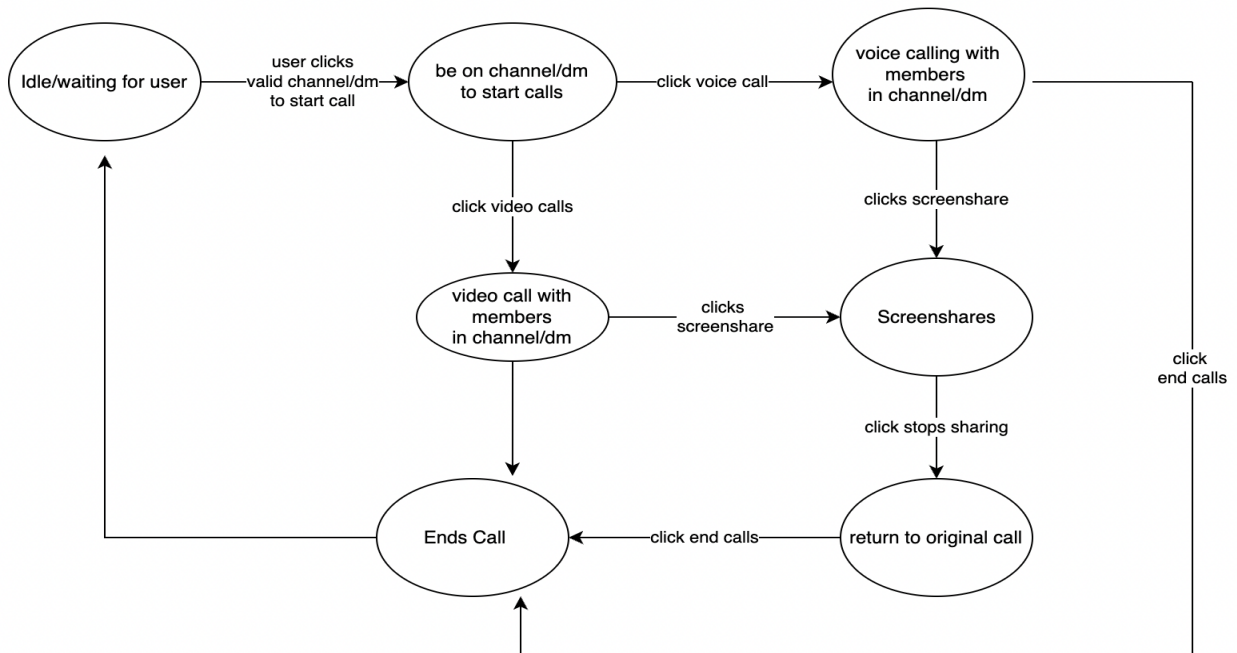
State model for adding tasks to the to-do list:



State model for starting a voice/video call with screen share function:

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State model for submitting a file:

