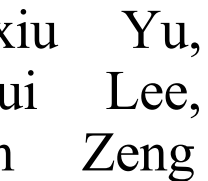# Live streaming platform-
First presentation

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Distribution of work

Bingxiu Yu : **Frontend Developer**

- Develop the user interface (UI) for the live streaming platform.
- Integrate the video player and implement playback functionality.
- Create the chat feature and UI for displaying subtitles.

Chiajui Lee : **Backend Developer**

- Set up the backend environment and database.
- Develop APIs for stream management and user authentication.
- Integrate Azure Cognitive Services for real-time subtitles and manage chat functionality.

Guojun Zeng : **Platform Setup (DevOps)**

- Provision Azure resources (Blob Storage, CDN).
- Configure Azure for video streaming and global content delivery.
- Conduct stress testing and monitor platform performance.

Schedule

	Task description	Start date	Finish date	Progress	October 2024	November 2024
1	Azure service setup(Blob storage)	10/7/2024	10/14/2024	0%	
2	Research integrating OBS with Azure	10/7/2024	10/14/2024	0%	
3	Integrate a video player with Azure	10/14/2024	10/21/2024	0%	
4	Use HLS and optimize CDN	10/14/2024	10/21/2024	0%	
5	Functional playback feature (optional)	10/14/2024	10/21/2024	0%	
6	Set CDN to stream in low- latency	10/21/2024	10/28/2024	0%	
7	Build a platfrom UI/UX	10/21/2024	10/28/2024	0%	
8	Integrate Azure AD for login (optional)	10/28/2024	11/4/2024 [7	0%	
9	Build API to handle metadata	10/28/2024	11/4/2024 [8	0%	
10	Basic chat feature using Azure SignalR	11/04/2024	11/11	0%	
11	Subtitle using Azure Cognitive Service	11/11/2024	11/18/2024	0%	
12	Stress tests	11/11/2024	11/18/2024	0%	
13	Performance improvements	11/11/2024	11/18/2024	0%	
14	Final UI/UX improvements	11/18/2024	11/25/2024	0%	
15	Bug fixes	11/18/2024	11/25/2024	0%	

Expected features

Low-Latency Live Streaming:

- Supports low-latency streaming for real-time viewing.

Video Playback:

- Integrated video player using HLS protocols for smooth playback.

User-Friendly Interface:

- Simple and intuitive UI for easy navigation and access to live streams.

Subtitle Support:

- Automatic real-time subtitles generated using speech-to-text services for enhanced accessibility.

Expected features

Optional User Login:

- Users can choose to log in using Azure AD, but it is not mandatory.

Real-Time Chat:

- Basic chat functionality for viewer interaction during live streams.

Stream Management:

- Streamers can easily start and stop live streams using tools like OBS

Global Streaming with CDN:

- Utilizes Azure CDN for fast and reliable streaming worldwide.