

PA0 – GROUP REGISTRATION & TOOLS SETUP

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2. Introduction:

- There are many streaming services operating in Vietnam, most of them come outside the region of our country. This has led to a problem: too much sensitive content could not be controlled, also the loss of taxes, money for our country since those companies are not under the governance of our country's law.
- Our goals when designing such a streaming platform: no inappropriate content, this later will lead to a place of useful streaming content from every aspect; moreover, we ensure that our **State Treasury** can receive all benefits from the growth of this type of industry.

3. Target and Environment:

a. Target Users:

- Streamer and user whose favorite content is not mainly focus on game: teacher, hobbyist.
- Vietnam Region, 20-40 years old - age group which priority of spending free time on learning new things.

b. Environments:

- Because of the limited resource in time and human, we will focus only on web application
- The server will be set up on cloud service like: amazon services
- The service we will use:
 - EC2 for hosting server and
 - S3 for storing data,There will be more services while we build this product.
- To configure the server, amazon EC2 service has many options that can be scaled whenever we need. We will hire more

powerful EC2 instances if we have more users. Therefore, we just need to focus on how to transfer data streams in real time.

4. Key features:

- **User interface** contains current Stream system: list all real-time streams, sort by trending, streamer,... Should be user friendly with not just game enthusiast but other kind of hobbies.
- **Sign up, sign in system**: we will implement the authentication system ourself and integrate other popular social network authentication services like gmail, facebook...
- **View user profile**: have options for user to input their personal information and give them choice to hide or public certain field. In user's first registration or when user linked their account with social network account, have option to fetch their information from other social network.
- **Small social media to contact between users**: A small interface for streamer interact with their followers, announce stream schedule, give away...
- **Comment/textarea**: Comment section for viewers to post in their streamer announcement.
- **Donate to streamer, gift**,... (connect to momo api, WeScan,...): Have multiple options for users to support their streamer.
- **History including donate, channel view**: history interface for streamer to keep tracks of their income through the donate system and their streaming productive .
- **Search bar within all system**: Help user navigate through the website with just some shortcut or searching with keywords.

When click inside specific video:

- **Pop up the video**: change the stream to the smaller one at the screen's corner.
- Show **descriptions of the stream**, real-time person like, view, streamer's info.
- **Edit video preferences**: resolution, navigate to front or back of the stream, adjust the speed
- **Share the stream**: You can share the stream directly to some social media like Facebook, Telegram or copy it sharing URLs.
- **Collaborating streaming**: Help streamers expand their networks while interactive with other streamers, creating more interesting contents.
- **Trending, related videos**: When user view a specific stream, our system suggest some other videos automatically that relevant or trending these days.
- **Browser Notification**: This system constantly updates users with all notifications about their activities such as streamers they like start

streaming, people replying to their comments in the stream, other users starting to follow them, ...

- **Following channel mechanism**
- **Navigation bar to switch between multiple categories:** Home, Liveshow, Social media, Setting,...