ENSE 405 Project - Youniversity

Final Project Presentation

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UN SDG / 4.7 : Quality Education
Overview on Community of Practice (Digital Habitats)

- Provide immediate access on high quality educational resources (Project Goal)

- Internet platform is the best practice of equity and/or equality on education

- Youtube provide almost of all kinds of tutorials, DIYs, and so on.

- Even community members can help others sharing their experiences

Community Orientations

- Potential users are hungry for a new tool

- Similar to Khan Academy or Udemy

- Give more power to the users (Creators, Curators, Consumers)

- Technological Barrier to entry low as possible
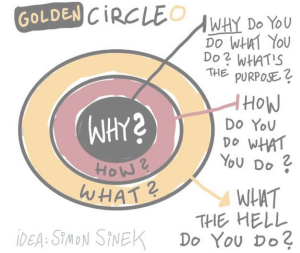
Community Orientations

- Single stream discussions (thread style communications)

- Self Structured and Asynchronous

- Strive for learning beyond the educational resources (collaborative discussion)

- Signs of Life depends on community members' participations mainly

Technology Configuration Inventory Research

- Similar tools to other video upload sites

- Our research focused on how we can improve the quality of suggested videos

- Narrowed our project goal down to keep the related videos clean and organized

- We could not find any similar ideas to our project

- Without the participation the project might not be successful

Golden Circle for the Project

WHY: Provide **Qualified educational resources**

HOW: **By community members' participations**

WHAT: **Curating Content(Share, Review, Recommandation)**
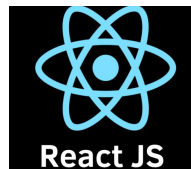
Demo

Technologies

- Micro blogging design, which is similar to Instagram or twitter

- Implemented by React js with Firestore (Document database)

- Tailwind CSS : A CSS framework for rapidly building custom UI designs

- Available for restricted posting: by using regular expression filter on input form

```javascript
const getVideoId = (url) => {
  const regExp = /^.*((youtu.be\/)|(v\/)|(\/u\/\w\/)|(embed\/)|(watch\?))\??v?=?([^#\&\?]*).*/;
  const match = url.match(regExp);

  if(match && match[7].length === 11) {
    return match[7];
  } else {
    return null;
  }
}
```

Technologies - the good and the bad

- React js (https://reactjs.org)
  - Single responsibility principle
  - Modularization of each function and design component
  - Adding complexity on directory and file structure
  - Prop drilling

- Firebase (https://firebase.google.com)
  - Useful for fast phased development
  - Increasing the user, the cost might be increased accordingly

- Tailwind css (https://tailwindcss.com/docs)
  - Predefined and customizable classes for designing html elements
  - Well documented and sufficient community to help out
  - Relatively stiff the learning curve

Team Reflections

- We think our project is kind of successful
- The development stack we chose were the best in fast development
- Proud of successful implementation of our MVP, even we used new technology stacks
- Learnt that the rationalization is the most important thing in a software project to be successful
- React js, Firestore, and Tailwind css were a good experience to be used for the future projects

Future Work

- **To add tag inputs (tagging) on a post**

- **Delete a post/comment**

- **Dashboard display as much as the contents**

- **Using modal for detailed view each contents**

Questions / Suggestions ?