Overview Team Idea

- Problem: As a youtuber what kind of videos do I want to produces?
- Questions: What does a successful video look like?
 - What is trending?
 - How many likes?
 - How many views?
 - What time period is this?
- Solution: Top 10 tags at a given timeframe determine popularity by views.

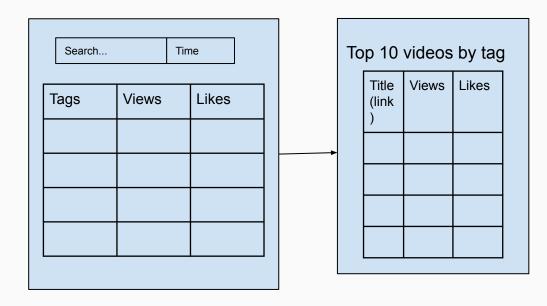
Story

- User uses application to get ideas for new video
- Top 10 trending tags
- Search to see if their idea for new video is trending recently (week, month)

Contribution: Planning

• Planning:

- Start layout appearance of application
- Top 10 tags by given timeframe (default week)
- Search for tags by specific time frame show top 10 by views and likes



Contribution: Backend Implementation

Backend

- Upload data into PostgreSQL
- Setup connect
 Database/Server/Frontend
- Setup Search tag API
- Setup top 10 tags (videos)

```
const getAllTags = () => {
  const query = `SELECT tags, views, likes FROM youtube ORDER BY views DESC LIMIT 10`;
  console.log(query);
  return new Promise((resolve, reject) => {
   connection.query(query, (err, res) => {
     if (err) {
       console.log(err);
       return reject(err);
     resolve(res.rows);
/*Allows user to search term and show top 10 */
const searchTag = (term) => {
 const query = `SELECT views,tags, likes FROM youtube WHERE tags LIKE '%${term}%'
 ORDER BY views, likes DESC LIMIT 10;
 console.log(query);
  return new Promise((resolve, reject) => {
   connection.guery(query, (err, res) => {
     if (err) {
       console.log(err);
       return reject(err);
     console.log(res);
     resolve(res);
```

Contribution: Frontend Implementation

Frontend

 Takes top 10 videos and split tags to show total views and likes for each tag

```
componentDidMount() {
 axios.get('/api/tags').then((response) => {$
   this.processData(response.data);
/*Return list of tags with view count and likes */
processData(data) {
 let tagsCount = {};
 for (let x = 0; x < data.length; x++) {
   let tags = data[x].tags.toLowerCase().split('|');
   for (let i = 0; i < tags.length; i++) {
      let tag = tags[i];
      if (tagsCount[tag] === undefined) {
       tagsCount[tag]= {'views': data[x].views, 'likes': data[x].likes};
     } else {
       tagsCount[tag].views += data[x].views;
       tagsCount[tag].likes += data[x].likes;
```

What's next?

1. Understanding Data

- a. These show top 200 per day
- b. What does it mean to be trending? (duration of tags, views)
- c. How long are the terms trending

2. Data processing - accuracy of information

- a. Category (comedy, nature, travel)
- b. Eliminating outliers
 - i. Discovery channel, CNN