FULL STACK PROJECT

(2021-2022)

Vision

SYNOPSIS

Institute Of Engineering and Technology

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Problem Statement:

Vision is a platform where users can post about their happy memories. The post would act as a snapshot of a particular memory which can be revisited by using our platform. Human brain has a special part dedicated to memories. Our brain tends to remember the things that impact our brain too much and brought big change in our life. But there are other memories also which are not that impactful but which have played significant role in shaping our life. It is important to recollect these memories at certain point of our life to gain the motivation and inspiration of moving ahead.

Reason:

Using the vision platform, the users will make a post about a particular memory of their life. This post will be stored in our platform and can be seen by the user as a collection of memories. This platform will help the user to recollect the memories whenever they feel lack of inspiration. As the name of the platform suggest it will give vision to the user. It is sometimes important to look back and plan for the future.

Human tends to make mistakes but a wise human learns from the mistake and grows. Our platform can also become the life story of the person which will display small and big moments, mistakes, achievements. It is a free service that users can avail without any fees.

Objective:

Vision is a platform where users can post about their happy memories. The post would act as a

snapshot of a particular memory which can be revisited by using our platform. Human brain has a special part dedicated to memories. Our brain tends to remember the things that impact our brain too much and brought big change in our life. But there are other memories also which are not that impactful but which have played significant role in shaping our life. It is important to recollect these memories at certain point of our life to gain the motivation and inspiration of moving ahead.
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Literature:

There is no platform where users can specifically can post about their memories. There are many social media platforms but none of them focuses on the life story of the person. People tend to post fake stories on social media platforms to impress their friends. Our platform is dedicated to individual but not to someone trying impress his/her friend circle. Our platform is a self-note which can read by the person when they feel demotivated.

Future Scope:

- Filter can be added in future to sort the memories by date and time.
- Voice notes can also be added so that the memories can be impactful.
- The platform can be used to share memories to other platforms.

Requirements:

1. Hardware:
   Ram required- 8GB or above
   Processor- core i5 or above

2. Software:
   Linux or Windows Operating System
   MERN Stack
   Atom or Vs.-code
   ES6 supportable browser for debugging.

3. Technology Used:
   MERN Stack.

Methodology

The idea of this methodology is to develop a web-application system that helps users to post their memories which cane be read by them in future.

In this web application users can register/sign-up themself and can post their memories which can be read by others also. All users post can be seen at one place. Posts are editable and also can be deleted. User have logout and re-login options also.

Modules: Description:

1)Login/Sign-up Page	Here a user can either login if he/she has already registered on this website or can register themself by their id and make a new password.
2)Main Page	On this page there is form by which posts can be added. And these posts are posted on this page only.

Testing:

We can test React components similar to testing other JavaScript code. There are a few ways to test React components. Broadly, they divide into two categories:

- **Rendering component trees** in a simplified test environment and asserting on their output.
- **Running a complete app** in a realistic browser environment (also known as "end-to-end" tests).

When choosing testing tools, it is worth considering a few trade-offs:

- **Iteration speed vs Realistic environment:** Some tools offer a very quick feedback loop between making a change and seeing the result, but don't model the browser behaviour precisely. Other tools might use a real browser environment, but reduce the iteration speed and are flakier on a continuous integration server.
- **How much to mock:** With components, the distinction between a "unit" and "integration" test can be blurry. If you're testing a form, should its test also test the buttons inside of it? Or should a button component have its own test suite? Should refactoring a button ever break the form test?

Jest is a JavaScript test runner that lets you access the DOM via jsdom. While jsdom is only an approximation of how the browser works, it is often good enough for testing React components. Jest provides a great iteration speed combined with powerful features like mocking modules and timers so you can have more control over how the code executes.

React Testing Library is a set of helpers that let you test React components without relying on their implementation details. This approach makes refactoring a breeze and also nudges you towards best practices for accessibility. Although it doesn't provide a way to "shallowly" render a component without its children, a test runner like Jest lets you do this by mocking.

Scope for Extension in Major Project:

The web-application can be extended to cover a wide range of features like containing voice notes, video and other forms of multimedia. The memories can act as a future legacy to the future generation of the person. Posts can be shared to others platforms so the memories with other persons can also be shared. Filtering of the post will hep the person to save their time.

Conclusion:

In this pandemic the mental health of the people has been adversely affected. Many people are not able to connect with people or outside world and has no platform to share their vision. Our platform vision helps them connect them with their past memories and motivate them for future. Sometimes the motivation that be need lies within us and not outside.

Vision is a platform where users can post about their happy memories and recollect them when they need inspiration from their memories.

References:

1. Reference for React Documentation -> https://reactjs.org/
2. For UI ideas -> https://dribbble.com/
3. About Atom -> https://atom.io/docs
4. About Vs.-Code -> https://code.visualstudio.com/docs
5. Some of the contents are from the Internet.