**SLOP – 2022 PROPOSALS**

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**About Us:**

We are freshman in B.E in Dayananda Sagar College of Engineering , Bengaluru and have been doing MERN development for about a year now with experience in both frontend and backend technologies. We are exploring the vastness of Open Source projects and are looking forward to contribute to them in order to learn various technologies involved and current practices been adopted in development. If accepted we look forward to work in the projects that will add greatly to our learning curves and also provide us experience of working in teams . We look forward to complete the projects in time and complete it according to the inputs received by mentors as well as our vision for it.

1. **Blog App**

**Why this project:**

This project aims at developing a blog website. The technologies used include HTML, CSS , Javascript , NodeJS , Ejs ,Express ,MongoDb .The RESTful protocols are used for CRUD operations in the database .The project is made using modern MERN technologies and is a very informative . Our skills include and are not limited to both frontend and backend technologies mentioned in the project. Our aim is to contribute in this project and use it as a way to apply what we have learnt , test our knowledge, get a hands-on experience in working with Open Source Projects and also learn many new technologies required to complete the project.

**Current State:**

Currently the website Is a complete WebApp with database to store the new blog entries . The frontend of the website is clean with simple design to show blog entries in list form . On clicking the Read More button we are directed to the complete blog where we can delete or edit that particular blog entry. The input page is also present which gives user clear instructions of what to input to make a blog entry . The inputs taken are blog title , image URL and the content of the blog. Like any other project there are areas where improvements can be made to make it more user friendly , secure , beautiful as well as cater to the motive behind this project. Some of these proposals are mentioned below.

**Proposal:**

1. We plan to integrate a login/register page with appropriate changes at the database. User will be asked for his/her Full name ,e-mail , password. Open Source OAuth service will be integrated using GoogleAPI or FacebookAPI . This will allow the user to register in the website using their Google Account . This will not only increase the security of the website but also provide a more user friendly approach.
2. As of now anyone can read the blog and update or delete it . We plan on creating a website where anyone can read blogs but only registered users will be able to create a new entry. Only registered and authenticated user will be allowed to update/change their blog entry.
3. User can save his/her blog as a draft or as a published blog. Each blog will contain a timestamp of its last draft as well as its published date thus providing users with a netter management of their blogs.
4. A search bar will also be provided where we can search a blog based on tags associated with it. This will enhance the User Experience on the website and also make it easy for user to navigate through blogs rather than scroll through them .
5. Further we are also willing to change the Front-end , make it a more user-friendly as well as make it responsive for various viewports like mobile phones , tablets ,laptops . We also plan to add pagination to the webpage .
6. Changes in backend will include but are not limited to customizing RESTful routes , making the code more readable by adding appropriate comments , making necessary changes in db schema. We are planning to make these changes as well as are open for any suggestion regarding our proposal as well as addition of new features.
7. **ExamResultGenerator**

**Why this project:**

This project is developing a general portal for publishing exam results at Universities. The project is completely based on Web Application. Front-end of the project is designed with HTML, CSS, Javascript, ReactJS and the Back-end includes Python Flask framework. The user data is stored in the SQLite Database.

As we are beginners in Web Development we find this project as a medium to get our hands on the Flask framework and get clear understanding about REST API architecture. Contributing to this project will be a good start to Open Source.

**Current State:**

Currently the application is linked to SQLite database using the REST API methods of POST and GET. The Model Schema of the Database consists of User Information such as Roll number,Marks in Physics, Chemistry, Mathematics and English. The Student Login model is made using two parameters Username and password. The already registered Users data is fetched into an array and the User is successfully logged in after authenticated. The application makes use of Python Flask framework for routing.

The front-end of the application provides to sign in as two modes of user – Administrator and Students. It also includes a user Sign in/up form.

**Proposal:**

1. We plan to integrate a login/register page with appropriate changes at the database. User will be asked for his/her Full name ,e-mail , password during registeration.
2. Administrator can add/delete any subject for the student. Marks for a particular subject can be updated.
3. We can further create a User Interface that contains marks of students in their respective subjects
4. A search bar will also be provided where the administrator can search profile of any student by providing their ID.
5. Further we are also willing to add some updates.The Administrator can update the attendance. The attendance percentage will be updated on every students profile.
6. Changes in back-end will include but are not limited to customizing RESTful routes , making the code more readable by adding appropriate comments , making necessary changes in db schema. We are planning to make these changes as well as are open for any suggestion regarding our proposal as well as addition of new features.