A Minor Project Synopsis on

**Laundry Manager**

Submitted to Manipal University, Jaipur

Towards the partial fulfillment for the Award of the Degree of

**BACHELORS OF TECHNOLOGY**

In Computers Science and Engineering

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**INTRODUCTION**

The website Laundry Manager aims at providing the users with the updated status of their Laundry Id while the user provides with the Laundry Id.

The two users of the website will be the students and the Laundry workers.

The student provides the website with their unique Laundry Id and the unique password which was generated by the website only.

The workers provide with the status of Laundry Bag corresponding to the unique Laundry Id of the students –

1. Ready
2. Not ready
   1. Washed
   2. Dried
   3. Ironed

And the students get access to this information.

**PROBLEM STATEMENTS**

1. Prevents multiple visits to Laundry by the students.
2. Alters the chances of fights between students and the Laundry workers.
3. Leads to more professional and interactive relations between the Laundry and it’s customers.
4. Can increase the customers for Laundry in a way.
5. Prevents the waste of time.

**MOTIVATION**

I am fluent in front end development through HTML5, CSS3, JAVASCRIPT, JQUERY, REACT.

So, I will be developing backend of this application through Nodejs and its framework Express.js to enhance my backend skills more as well.

Also I personally feel it’s very hectic to visit the laundry many a times and do not come back with the laundry bag , and wasting my time and effort for the same .

Not only me but most of my friends have faced this also , so a website like this is very desirable.

**PROJECT OBJECTIVE**

**PROS –**

1. My website will save the time and effort of the students and will tackle the problem in a technical way.
2. There is no such website available in the college yet.

**CONS-**

1. The project still will not be completely automated. We will try to directly update the status by scanning a QR code in the future.

**METHODOLOGY**

The work for the web app will be carried out in following process-

1) I will be working on the backend and one of my classmates will be working on the frontend part.

1. I will be making the backend with the help of Node.js and Express.js .
2. Firstly, there will be User login portal , in which users need to sign in with their laundry id available with them and the password which will be either given to them or will be generated.
3. Users password will be completely encrypted using hashing and further adding “salt” to the password for increasing the encryption a lot.
4. Authentication will be done using JSON Web Tokens. After authentication, user will be redirected to the dashboard page, where , there will be the details of the times their laundry bag has been taken to the laundry and also primarily the status of their bag.
5. Laundry workers will be assigned special role access control(admin) so that they can access user details with their laundry id and update the statuses.
6. Plus, I will be helping my classmate converting the Javascript code to React for having a Progressive Web App (PWA).