

Go Green - B22NT03

An application suite for paperless administration



Team



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Mentor

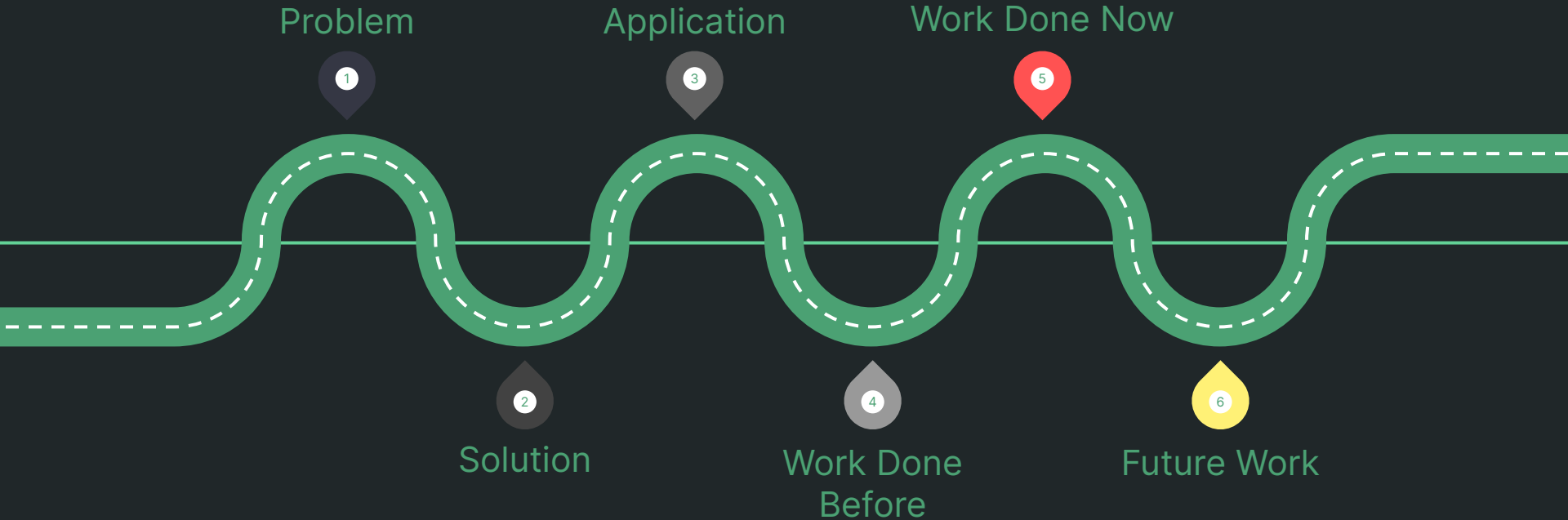
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(Project Code - B22NT03)

Agenda



The Problem

- Paper is the number one material thrown away and also one of the biggest polluting industries. Papermaking has an impact on the environment because it destroys trees in the process.
- Industry experts indicate that to produce 1 ton of printing paper, approximately 12 trees are required each about 40 feet tall with a diameter of roughly 6-8 inches and requires nearly 20,000 gallons of water. [1]
- Office workers spend 30-40 percent of their time looking for documents in physical file cabinets. [2]
- Working with paper documents creates problems that prevent an employee from being productive and an organization from saving costs. [2]

Solution

- We can try to minimize the adverse effect the paper industry is causing to the environment and make employees more productive by adapting to a **Paperless Administration**.
- A paperless office is a workplace that has minimal paper-based processes and relies on digitized documents instead.
- This typically involves transitioning to an electronic document managing system that digitizes files and stores it in a central repository.
- We are trying to digitize all things which require paper and solve those problems through our web application.

Benefits

- We can **save valuable time** in retrieval of information.
- We can **improve security of information**.
- We can **save money** spent on paper and filing cabinets, as well as other costs like photocopier ink and office stationery.
- We will be **saving space** by storing a full cabinet of data onto a single disk.
- Multiple employees being able to access old files and able to edit them, which **optimizes the workflow** when working together.

COMPETITION



Similar Applications

1. **MyClassCampus:** [3]

Features:

Academics, Admissions, Attendance Management, Courses Management, Document Management, Examination Management, Timetable, Student Information, Database Backup.

Drawbacks:

Paid Software, Does Not support Mac Os, It is generalized so many features are redundant.

Similar Applications

2. **Campus 365:** [4]

Features:

Academics, Accounting, Attendance Management, Courses Management, CRM , Database Backup, Document Management

Drawbacks:

Paid Software, There is no certificate management. Confusing to use.

Similar Applications

3. M-Files: [5]

Features:

Document Management, Email Integration, Electronic Signature, File Scanning, Performance Management, Content Management System, Security Management

Drawbacks:

Primarily File storage Application, Paid Software, No web support and only supports mobile app, No ticket support, Setting up is complex.

Similar Applications

4. Canvas: [6]

Features:

This tool has a responsive web design, has a dashboard, which presents a detailed list of our recent activity , gives educators the ability to create content to evaluate and upload grades to the system,

Drawbacks:

Teachers seeing student grades in other classes, Some of the functions/features can be hard to find, System does not have auto-save.

Similar Applications

5. Blackboard: [6]

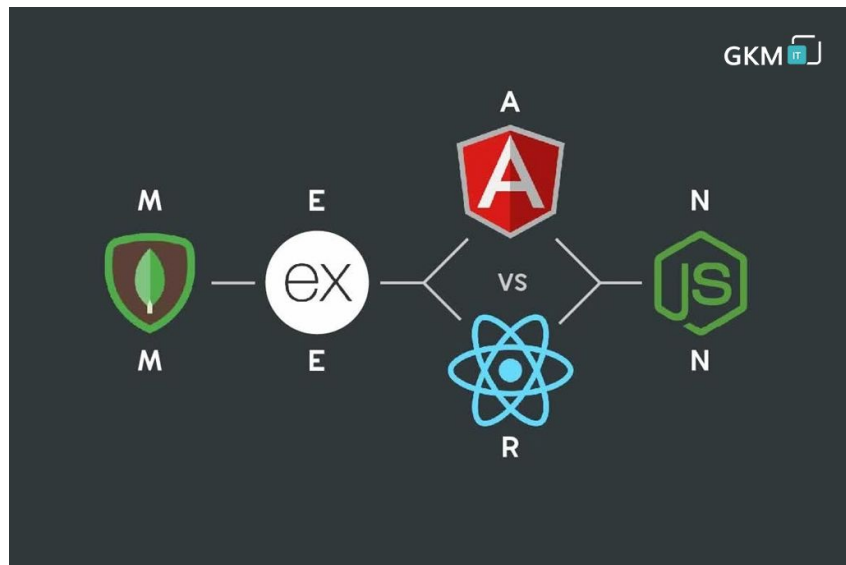
Features:

It is easy to use, It is inexpensive to use and maintain. You do not need a technical training for maintenance and uses.

Drawbacks:

It always gets the users looking dirty and rough. You may need regular maintenance in order to get the board really black. The person who polishes it always gets dirty with black stains at the end.

Tech Stack Used



Frontend:

React with Redux

Backend:

Node JS with Express and Mongoose

Database:

MongoDb

Backend - Models & Routes

- Admin Model
- Student Model
- Student Attendance
- Teacher Model
- Teacher Attendance
- Teacher Salary
- Student Leave
- Student Fees

Frontend

- We have used React for the frontend, and used redux for the state management.
- We have only used vanilla css for the frontend.
- We have component based architecture where we have developed many reusable components.



Swagger UI



Go Green Project CRUD 1.0.0

[Base URL: localhost:5000/]

Go Green Project Application API

MIT

Schemes

HTTP

Users API for users in the system

Dashboard


students

POST /api/students/register Register Student

GET /api/students/ get all students

Login Page

Sign In



☐ Remember me

 Dashboard

Students Section

 Student Registration

 Student Fees

 Student Details

 Student Attendance

Teachers Section

 Teacher Registration

 Teacher Salary

 Teacher Details

Non-Teaching Staffs


 Registration

 Salary

 Details




Register Page for Admin

Register Student

Full Name	<input type="text" value="Srineer Kaleri"/>	Email	<input type="text" value="srineer.k19@iiits.in"/>
Address	<input type="text" value="Hyderabad"/>	Gender	<input type="text" value="Male"/>
Class	<input type="text" value="UG4"/>	Phone Number	<input type="text" value="6303578350"/>
Parent's Name	<input type="text" value="Anil"/>	Age	<input type="text" value="20"/>
Registration Fees	<input type="text" value="100000"/>	Upload Picture	<div><input type="button" value="Select a photo"/> </div>

REGISTER STUDENT

List of Students

Search for student...										Q
SN	Photo	Student Name	Class	Roll No	Address	Parent's Name	Contact No	Previous Dues	Gender	Delete
1		Srineer Kaleri	UG4	1	Hyderabad	Anil	6303578350	0	Male	
2		Bharath Kamasani	UG4	2	Chittor	Kamasani	9977228842	0	Male	
3		Govardhan	UG4	3	Sri City	Govardhan	9977228842	0	Male	

Things for Final Evaluation

- We will complete the interface for the student and faculty and add some features.
- Those features include leave requests from both student and faculty.
- We will then try to optimize the application.
- Conduct some testing to make sure there are no fatal flaws or security issues.
- We will deploy the application, after which the application will be ready to use.

References

- <https://www.worldatlas.com/articles/how-many-trees-does-it-take-to-make-1-ton-of-paper.html> [1]
- <https://www.hyland.com/en/resources/terminology/paperless-office> [2]
- <https://myclasscampus.com/home> [3]
- <https://www.campus365.io/> [4]
- <https://www.m-files.com/> [5]
- <https://canvas.instructure.com/login/canvas> [6]

Thank You and Questions...
