

Smart Calendar

END TERM REPORT

By

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Student Declaration

This is to declare that this report has been written by us. No part of the report is copied from other sources. All information included from other sources have been duly acknowledged. We aver that if any part of the report is found to be copied, we shall take full responsibility for it.

Subhadeep Mandal

Subhadeep Mandal (Roll: RK20ENA24)

Place: Kalyani Nadia **Date:** 28.4.2021
(West Bengal)

Dheh

Dharniesh P R (Roll: RK20ENA26)

Place: Namakkal **Date:** 28.04.2021
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Aakash Kumar

Aakash Kumar (Roll: RK20ENA31)

Place: Daudhat, Bhagalpur **Date:** 28.04.2021

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BONAFIDE CERTIFICATE

Certified that this project report of **Smart Calendar** is the bonafide work **Subhadeep Mandal, Dharniesh P R, Aakash Kumar** who carried out the project work under my supervision.

Signature of Supervisor

Dr. Dhanpratap Singh

Designation: Assistant Professor

Qualification: B.E, M.E & Ph.D

Research Area: Ad-Hoc networks

Background and Objectives of the project

No matter what system we use there's always a dire need for a good calendar that remembers all the important information and give reminders from time to time.

One that doesn't require inputs from us but automatically collects the information's from our social lives. Like collecting geographical location of the user and setting elections dates automatically.

Or the student enters his University name and it automatically presents mid term or end term dates and other useful reminders from the University.

And not just stopping there if it can collect the birthdays of the people close to the user and present them in a well formatted manner and setting reminders accordingly.

It would make life just so simple and well organized.

Hence this project was created. The interface is very minimalistic, plain and warm colours has been used. And it is not cluttered with a lot of random images performing no particular effect or use.

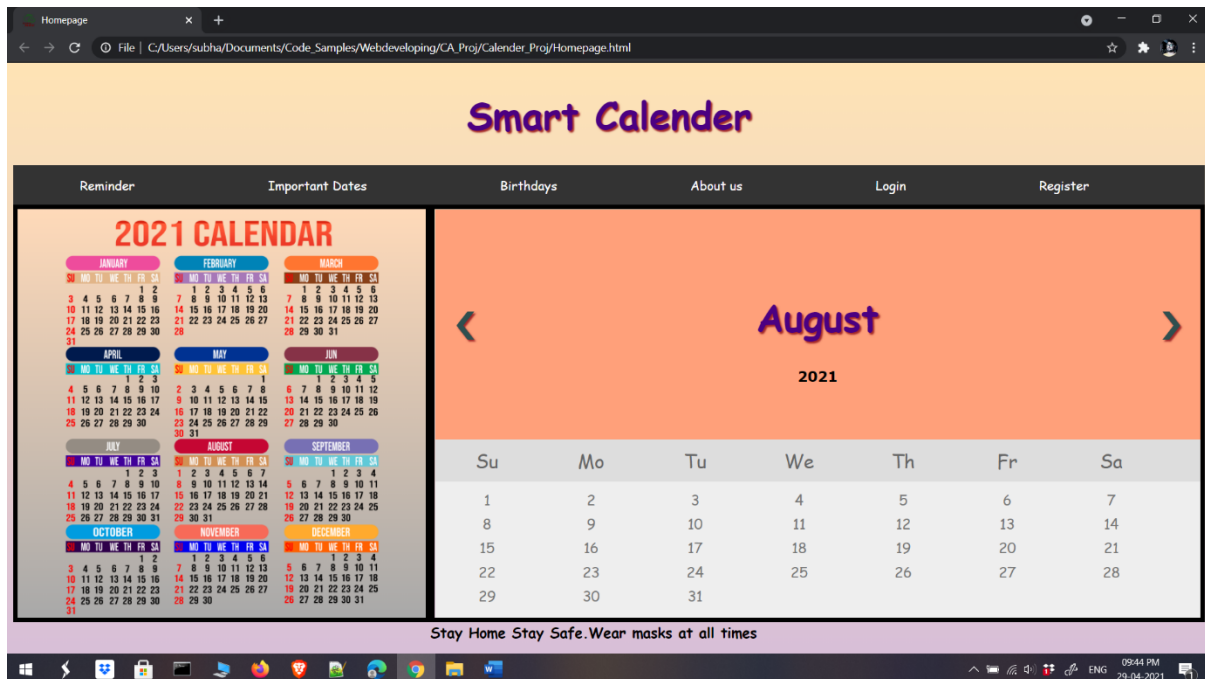
This is perfect for all groups of people like

- Old people forgetting Electricity or Recharge dates.
- Helping University students remember assignment/midterm deadlines.
- Helping school students remember tuition dates.
- Helping party freaks join any events organised by a set of people.
- Or a general citizen remembering upcoming election dates.

To put it simply it changes the dimensions of life and it makes life very very organized putting an end to important events slipping out of people's memory.

Note: Due to technical limitations some features are not currently available. They will be updated soon.

Description of the project

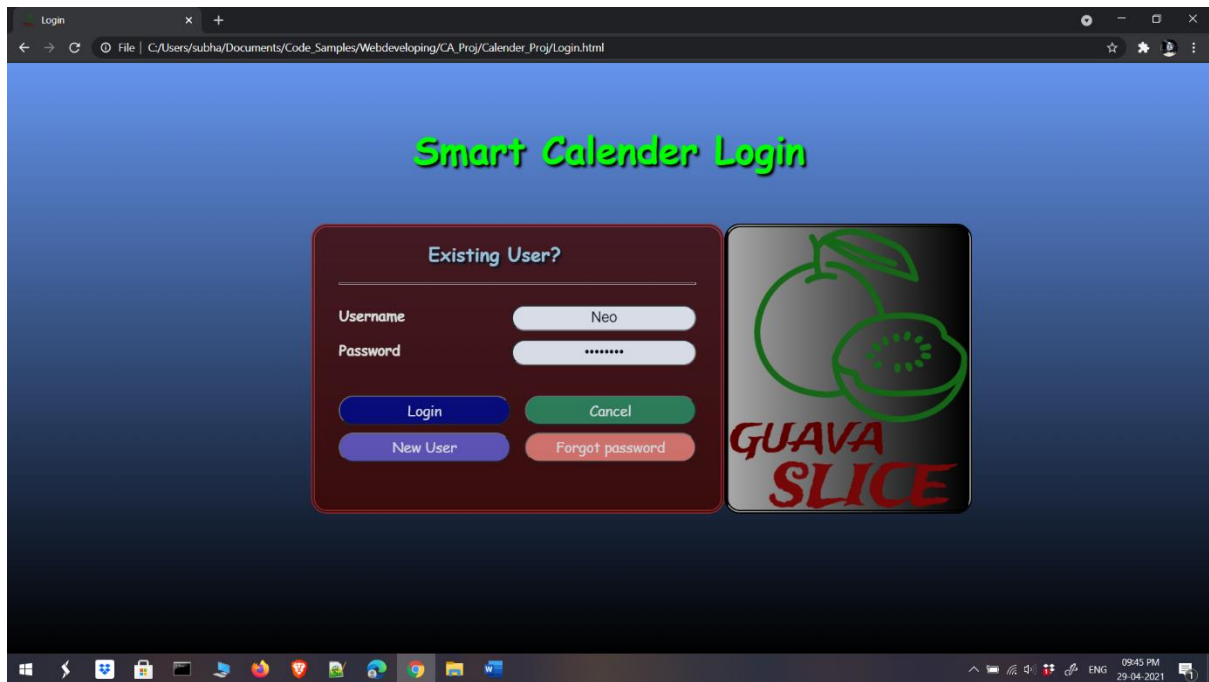


The homepage contains the core of the project and provides a navigation bar so that users can easily navigate into various locations.

The left panel provides the entire calendar the right side expands into 1 particular month from where users can swipe left or right to go to other months.

Note : [swiping to other months is currently not provided as it was not asked in the project but it will be added later]

By default the current month should open. Clicking on a particular date will show any Reminder set previously. For example clicking on 15th August shows that it's Independence Day.



For new users a Login option is there so that we can provide individual support to each user and we can provide with automatic reminders based on the user's social presence.

Minimal amount of javascript has been used here to show alert messages for some actions.

Date	Day	Name	Type
1 Jan	Friday	New Year's Day	Restricted Holiday
13 Jan	Wednesday	Lohri	Restricted Holiday
14 Jan	Thursday	Pongal	Restricted Holiday
14 Jan	Thursday	Makar Sankranti	Restricted Holiday
20 Jan	Wednesday	Guru Govind Singh Jayanti	Restricted Holiday
26 Jan	Tuesday	Republic Day	Gazetted Holiday
12 Feb	Friday	Chinese New Year	Observance
14 Feb	Sunday	Valentine's Day	Observance
16 Feb	Tuesday	Vasant Panchami	Restricted Holiday
19 Feb	Friday	Shivaji Jayanti	Restricted Holiday
26 Feb	Friday	Hazarat Ali's Birthday	Restricted Holiday
27 Feb	Saturday	Guru Ravidas Jayanti	Restricted Holiday
8 Mar	Monday	Maharishi Dayanand Saraswati Jayanti	Restricted Holiday
11 Mar	Thursday	Maha Shivaratri/Shivaratri	Gazetted Holiday

Each page provides 2 arrow keys for user's ease of navigation. The left arrows takes the user to homepage and right arrows takes the user to the next page in the same order as in the navigation bar in the homepage.

Division of Task

Dharniesh P R, Aakash Kumar :

Performed the crucial role of collection of data. To make things easier and hassle free the data collected was formatted using CPP and then inserted into HTML.

Gave several suggestions some were implemented some were discarded on successive iterations.

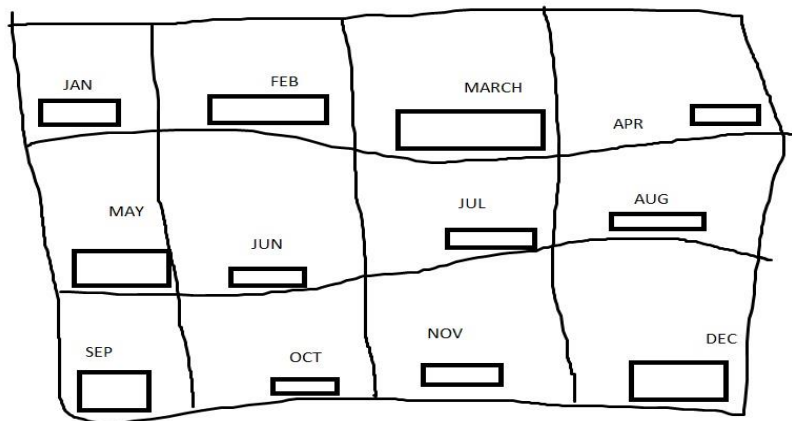
Aakash coded the monthly calendar on the homepage. Dharniesh adjusted the stylings of the same. It was done combinedly in a google meet.

Subhadeep Mandal

Coded majority of the pages apart from the Data collection and image collection.

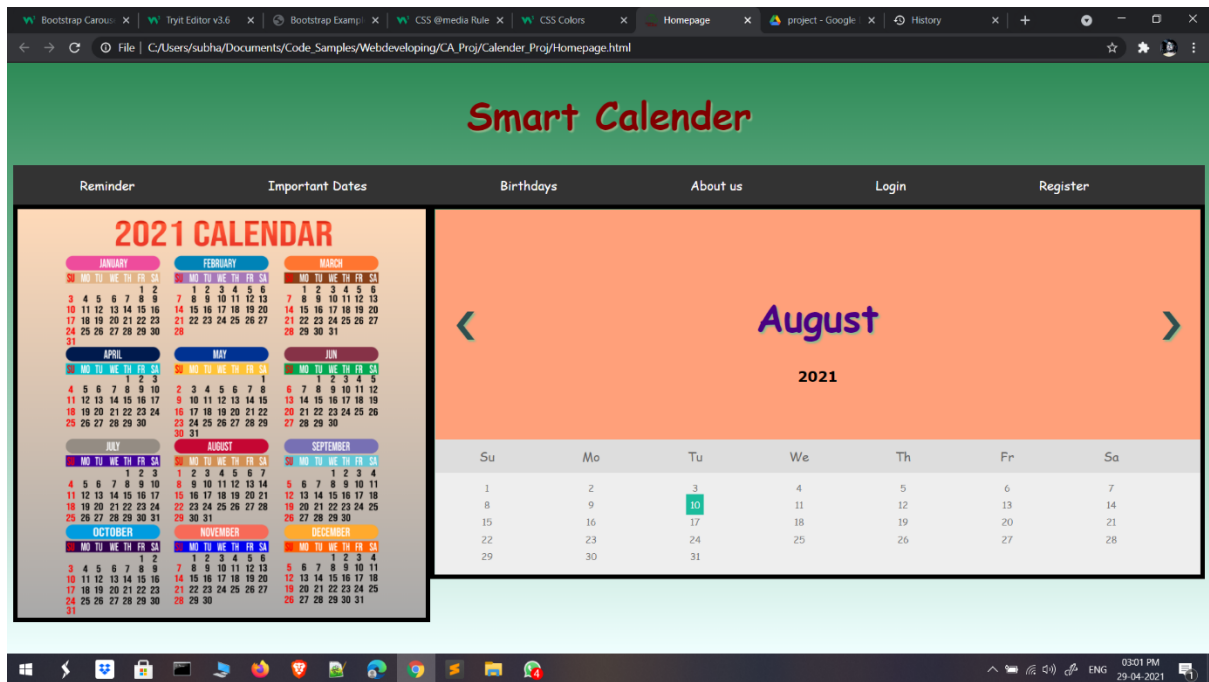
Designed the login and Register page.

Implementation



A basic structure was made by Dharniesh first and then it was decided what approach to take.

Subhadeep Mandal coded it accordingly. Aakash modified that code to provide responsiveness and fit a variety of screen sizes by modifying the CSS.



This picture depicts some of our initial challenges. The heading as decided earlier by Dharniesh isn't prominent it was fixed later. The right panel was not the same size as left panel. Aakash gave the idea that fixing the font size might work.

The HTML code was done by Subhadeep Mandal.

Technologies and Framework

- HTML
- CSS
- JAVASCRIPT

Sublime editor was used as a text editor and this project is being run on web browser.

It is compatible with most modern web browsers like Mozilla Firefox, Chrome, Edge, Brave etc

Google Chrome [Version 90.0.4430.93 (Official Build) (64-bit)] was used for most of the testing purposes.

SWOT Analysis

- **Strengths**

- The Project is made entirely using HTML,CSS and JS. Hence it will be readily compatible with most devices irrespective of the operating system or the system architecture.
- Clean-code approach was used by dividing similar kind of styles into classes or ids. This also made debugging very very easy.
- JavaScript and CSS were not linked to an external file to increase Portability. Hence we could easily share just the HTML file among us and modify without any hassles.
- Only 2 Images were used in the entire project to prevent clutter and most importantly this made the webpage very very fast and smooth and when it will be implemented with a server it will greatly reduce the server load as most of it was done using codes.
- No part of the code was brainlessly copied from anywhere hence we can modify any part whenever we wish to.

- **Weaknesses**

- As of now only 1 month is showing in the right side panel in Homepage. To add more months and be able to easily swipe jQuery or bootstrap or advanced knowledge of JavaScript was required. Hence it was not immediately implemented.
- The form elements of login page doesn't do anything and to make that work knowledge of php and a webhosting service would be required to grab the information store it in json and process it to provide appropriate feedback to the users.

- **Opportunities**

This Calendar is perfect for all groups of people like :

- Old people forgetting Electricity or Recharge dates.
- Helping University students remember assignment/midterm deadlines.
- Helping school students remember tuition dates.
- Helping party freaks join any events organised by a set of people.
- Or a general citizen remembering upcoming election dates.

- **Threats**

- Although the interface might be very simple and alluring to millennials. But for old people from previous generation this might still not be the ultimate solution. For that a voice-based approach might be implemented in the future updates.
- Colour Blind people might face some difficulties to see the left panel because of the contrasting colours used.
- The project is not as responsive as we earlier expected it to be. For that this whole project will be redesigned with bootstrap later. So it can fit all screen sizes.

Thank You