

Report for Winter Project

Decision Support System

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Introduction to Project

Decision Support System is a project for Indian District Magistrates (DMs).

The Decision Support System (DSS) is a product that acts as a Dashboard and uses Operations Research/ Artificial Intelligence methods for decision making.

The project involves:

- Interaction with IAS and Other government officers
- Creating a Dashboard/DSS Architecture, coding it up
- Using Operations Research and AI tools and more

Law and Order Section

The Law and Order Section is responsible for storing and processing details, experience and feedback of district events in the district.

These details and experiences are stored as a future references when the person in-charge has to attend/handle a similar event in future. The past data would help to predict what all measures would help in the future events.

Similarly, all the help regarding literature reading, convenient logistics and helpful advices would help the officer in-charge.

Project Contribution

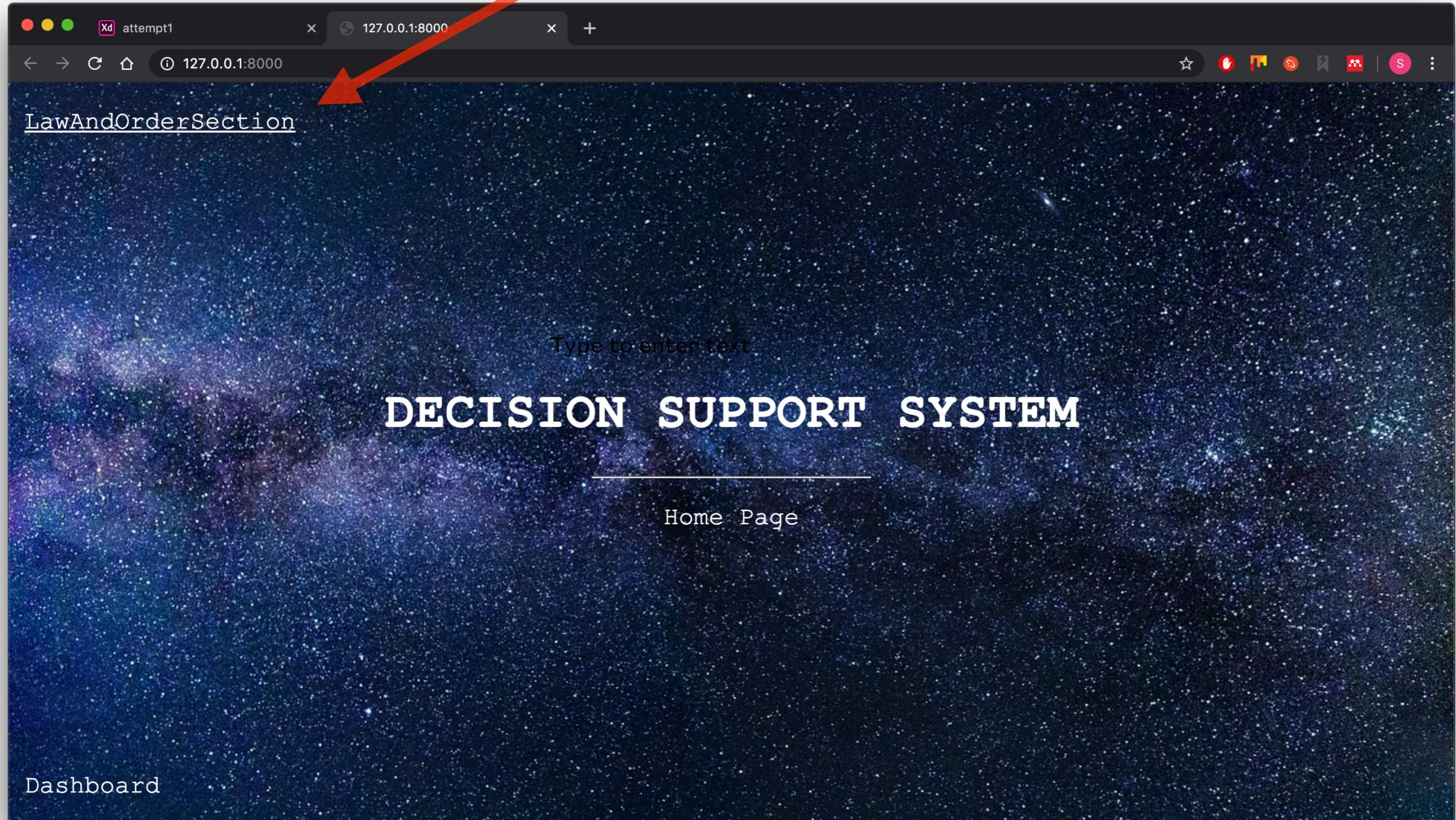
The Dashboard of the Decision Support System is built on a website. I was involved in the backend development of the law and order section. I also created Forms to submit data regarding the events and tables to show the data in the website.

I used **Django** as the backend web framework and **MySQL** as the database management system. I worked on **python** and **SQL**. I created the forms and tables using **HTML, CSS** and **Javascript**.

- Created **APIs** (GET & POST request)
- Created **Model Forms** for data submission from front-end and store in database
- Created **Tables** with **Search feature** to filter the data with name of event.

WEBPAGE SCREENSHOTS

Created Law and Order Section in
the Home Page



WEBPAGE SCREENSHOTS

Law And Order Section

[Rally](#)
[Crime](#)
[Epidemic](#)
[Public Gathering](#)
[Natural Calamities](#)

All tables containing the data from past events

[Home](#) [Create New Event](#) [About](#)

Create a new model form to store new event data

WEBPAGE SCREENSHOTS

This page contains all the forms
for each event type

attempt1

Create New Event

127.0.0.1:8000/law_and_order/new_event.html

Event Registration and Feedback

Select Event Type

[Rally](#)
[Natural Calamities](#)
[Epidemic](#)
[Public Gathering](#)
[Crime](#)

WEBPAGE SCREENSHOTS

Model form of event type 'Rally'

Event Registration and Feedback: Rally

Name:

Political leader:

Social leader:

Religious leader:

Government official:

Route:

Critical level:

Participants:

Police personnel deployed:

Ambulances deployed:

Fire fighters deployed:

Vehicles:

All the attributes regarding the details of the event

Submit

WEBPAGE SCREENSHOTS

Search Bar to Filter Events

The screenshot shows a web browser window with a title bar "attempt1" and "Rally". The URL in the address bar is "127.0.0.1:8000/law_and_order/rally.html". The page content is titled "Law And Order Section". It features a search bar with the placeholder "Search for names..". Below the search bar is a table with four columns: "Name", "Route", "Political Leader", and "Critical Level". The table contains two rows of data:

Name	Route	Political Leader	Critical Level
Name1	Route1	Political_leader1	1
Name2	Route2	Political_leader2	2

All the past events from the database

Source Code

<https://github.com/sauravmittal001/DecisionSupportSystem>