

IT 314
Software Engineering
Lab 4

Track Management System

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1.) **Tools:** VS Code, GitHub

These tools are highly efficient and help in integration and highly used in software development also in managing work among different members and collaborating it to a final product.

2.) **Technologies:** HTML, CSS, JavaScript

We will be using the above tools for creating a highly performative and efficient track management system which will have multiple features and functionalities for tracks.

These technologies are highly used for web development by modern day web browsers because of its diversity of performance and features it provides along with availability of multiple resources available over the internet.

The combination of the above technologies help to create both frontend as well as backend of the website and integrate them.

- HTML provides a structure for the content of a webpage, defining the layout and formatting various aspects of the webpage.
- CSS allows developers to control the layout and other visual aspects of the web page. This allows for greater flexibility and consistency.
- Javascript is a dynamic and interpreted programming language used for creating interactive web applications and also a widely used development tool.

Frameworks: ReactJs, Django

3.) **Database:** MongoDB

3.)

Function Points :

Measurement Parameter	Count	Weighting Factor	Ans
User i/p	1	3	3
User o/p	2	7	14
User inquiries	2	3	6
No of files	2	7	14
Ext. interfaces	2	5	10
Count - total			47
Complexity multiplier			0.9
Function Points			42.3

Features	F.P.
Login (Admin)	35.5
Login (Team)	35.5
Login (Organizer)	35.5
Team Registration	45
Change Password	36
Signup	40
Profile	49
Leaderboard	34
Track List (Yearwise)	55
Searching Track (Yearwise)	47

Displaying Dataset for specific track	42
Request for organizing track	44

Productivity - 35