Week 1 Outcome of the project: Online System for hosting CTFs and Hackathons

# Further discussion on structure of the project:

Basically we will be using emberjs framework for frontend, our backend server will have Sailsjs framework integrated with MongoDB (Document based Database Management System).

Starting from basics we will be making a simple emberjs app which which will contain basic MVC elements i.e. models, views, controllers, templates and routers. It will server as the foundation block of our project. Then we will make migrations on the database using the above models.

We will have an admin panel, a host panel and a client panel. Admin panel will take care of development, bug, security etc. related issues of site. Host panel will be hosting challenges and hackathons on the site. Clients may accept these challenges and then work upon them and submit their responses.

Initially following the jeopardy style, the challenges will be stored in the database with their encrypted and hashed solutions(flags). These will be available in site with proper User Interface (UI), from where the clients can download the challenges(concept of jeopardy sytle). There will be a portal where the solutions(64bit strings proving the successful completion) of the challenges can be uploaded by the clients and can be evaluated.

The site will thereby be hosted on a paid web server or on the IITD Intranet Server whichever be more suitable.

If the project is accepted by authorities then we will be having an administration unit for maintaining the security of the site so that the site itself is not prone to being **“HACKED”.**

# Week 1 Foreseen Objective:

* Revising HTML, bootstrap(css), Nodejs
* Practicing framework: Emberjs(Frontend)

# Week 1 Objectives Achieved:

* + Attained good enough knowledge of HTML and Bootstrap(js and css) from w3school.
  + Learned and practiced javascript(from Codecademy and w3school).
  + Started learning Nodejs from thenewboston and nodeschool.
  + Gained vital knowledge in-built global modules like http and file system.
  + Started learning Emberjs. Moreover learned to implement custom HTML plugins and js connection libraries and data transfer libraries.