

**SCHOOL OF ENGINEERING & TECHNOLOGY**

**BML MUNJAL UNIVERSITY**

**WEEKLY DIARY REPORT (PS-II)**

**(STUDENT BATCH 2016-20)**

(To be submitted to PS`-II instructor over mail with CC to Industry mentor)

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Station Name: **Palwal** Name of PS-II faculty instructor Ms. **Poonam Sangwan**

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|  | Week No **8** From Date 09**-07-2018** To Date 13**-07-18** | |
|  | **Date** | 09**-07-2018** |
|  | **Place of Work** | 1st Floor, Dharam Plaza, near Shiv Colony, Railway Road, Palwal, Haryana 121102 |
| 1 | **Project Title** | DU Locator |
| 2 | **Project Description** | DU Locator is an all-inclusive Web application designed for Du aspirants and Student. This web-site showcases information about the latest as well as previous year cut-offs of colleges and departments under DU which might be helpful for students in deciding their imminent college. It also has information about lively and recreational spots, nearby metro-stations and all the updates about the happening events of DU. |
| 3 | **Outline of the Solution** | I am working on this application to achieve the following functionalities:   * Showcasing latest and previous years’ cut-off lists of colleges of DU. * Showcasing college information (address, website, and phone). * Showcasing recreational spots near the selected college on the map. * Showcasing modes of conveyance (metro stations, bus stops) near the selected college on the map |
| 4 | **Design of the Solution** | This website total contains following functionality.   1. Parallax Imaging 2. Couple of Jumbotrons inside Container 3. Registration and Login Page 4. College Information Page 5. Latest news and Feed 6. Thumbnail of all college List 7. Authentication server 8. Serial-wise Cut off Page 9. Public Transport Page 10. Lively Spots Page 11. Query form page 12. Search functionality 13. About Page |
| 5 | **Hardware and Software Requirements** | Minimum requirements:  -Windows/Linux/mac pc/smart phone  -256MB RAM  -20-25MB memory requirement.  -Internet connection  -Google Chrome  Permission required by Application:  Full Network access (Internet Connection is must) |
| 6 | **Environment** | Windows  1) Sublime Text Editor  -version 3.0.0s  2) Gimp- Creating icons, screens and UI design.  -version 2.8.14  3) Server-Side Scripting: cPanel and PHPMy Admin |
| 7 | Concepts Used | * ***API***Development * ***HTML/CSS*** – Used to design UI of Web application. * ***Google Places API*** – Used to find nearby places * ***JavaScript:*** for making website responsive by connecting html and css. * ***Node Js:*** Manipulating Data (Backend). * ***Server-Side Framework***: Express - Used for server-side scripting for the application * ***MongoDB***: For database * ***Google Maps API*** – Used to show map in the application * ***Cloud 9***: for broadcasting website with an IP   **Libraries used:**  ***Express Js*** – Used to easily retrieve data in JSON format(Framework)  ***Bootstrap*** – Used for using predefined CSS Classes.  **Npm- package** manager for JavaScript  **Mongoose-** package for database  **Method-override-** getting current page id in for Each  **Body-Parser-** Converting the String data to object (very large)  **Passport-**  **Node mailer-**  **LocalStrategy-** authentication  **Flash-**For displaying flash messages  **Crypto-to encrupt and decrupt content** |
| 8 | Testing & Validation | As our Day gets complete, Our Supervisor tests the Application and if found any bug  I Note down that And try to Solve next day. |
| 9 | Testing Material |  |
| 12 | References | <http://stackoverflow.com>  <http://www.w3schools.com>  <http://www.mdnDevelopers.com>  <https://www.guru99.com/node-js-tutorial.html>  www.tutorialsteacher.com/nodejs/nodejs-tutorials |
| 13 | **Day 1 – (09-07-18)**  **Day 2 – (10-07-18)**  **Day 3 – ((11-07-18)**  **Day 4 – (12-07-18)**  **Screenshots** | Finally my project was ready to serve but still it had some minor problems which are generally present in many websites but it was my job to fix all those, like website not able to stand on attacks like DDos and sql Injection, which are a part of hacking when any anonymous user sends 1 lakh traffic per second to route website goes into infinite loop,  To overcome this firstly I learnt about these attacks, an collected suitable npm packages for node js and found   1. SSL option: this package provides two methods end(),terminate()   Whenever we found something suspecious on our website we can simply call these two method on c9 shell( connection.end()). Which can reduce some traffice by either termination request or simply bypassing it .  A screenshot of a cell phone  Description generated with high confidence  This day I worked on another npm package because the problem remains the same.   1. Pooling: Rather than creating and managing connections one-by-one, this module also provides built-in connection pooling which terminates all connection at once.       This day I worked on DDOS attract it automatically fixed just by installing a sanitizer package only. And worked on setting up directories in correct order as standards.  And made my code clean.  Now my product was ready to serve as a complete package, hopefully everything goes well.  Our supervisor threw a party to all interns,  It was such a wonderful experience to work with such great people. |