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| **THE NATIONAL INSTITUTE OF ENGINEERING, MYSORE**  **(An Autonomous institution, affiliated to VTU)**  **DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING**  ***A.Y. 2022-23*** |

**PROJECT SYNOPSIS**

**Subject/ Sub. Code: Major Project Phase – 1 / IS7C04 Semester: 7 B**

**Batch No: B13 Date: 28-09-2022**

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| **Project Title:** Cross-Application Web API Authorization using a Centralized Server  **Broad Area:** Web Technology  **Type of Project:** Prototype | | | |
| **Objective:** To create a secure and scalable resource authorization protocol and a central application server for management of application resource access permissions  **Brief description:** Secure and Consistent access of data between web applications is often a confusing factor and cause of many security incidents. We provide a standard protocol and server which can eliminate the need of repeated implementations of this third-party resource access through web API.  The applications can register themselves with a central server and grant permission to other applications asking for its data. Once an application grants the permission for access, the requesting application can now easily access the data of the source application. This prevents the necessity of having multiple private access keys for each application.  **Software requirements:**  **Operating System:** Windows 10 or higher, Linux kernel v4 or higher  **Programming Language:** JavaScript, TypeScript, Rust  **Tools:** Node.js, VS Code  **Hardware Requirements:**  **Processor:** intel 8th gen, Ryzen gen 2 processors or higher  **Memory:** 8GB DDR4 RAM or higher | | | |
| **Guide Co-Guide**  **Name: Name:**  **Designation: Designation:**  **Signature Signature** | | | |
| **Remarks (if any):**  **Signature of Guide/Co-Guide** | | | |
| **Note:** | | | |