

# GTU 15-Days Summer Internship Training Plan –2024

## (Virtual Community Support)

Date	Topic	Content	Assignment
24-Jun	Induction call	Training Plan	Install required Softwares
29-Jun	Basic Front end set up	Angular Project Set up	Angular Project Set up
1-Jul	Introduction to PostgreSQL	Learn basics of SQL, set up PostgreSQL database, and Database Schema CI platform.	Create, insert, Update, Delete and sub-query data in PostgreSQL.
2-Jul	Introduction to Angular	Explore Angular overview, build a basic application, and integrate basic Angular functionalities.	Create a simple Angular application with forms and components
3-Jul	Introduction to .NET .NET with Code First approach, LINQ, and Login Page	-Introduction to .NET and web API. Understand Swagger.  -Understand N-tier Repository pattern folder structure and Entity Framework (EF)  -Understanding of LINQ.	Familiarize with .NET project structure and EF - Build a login API and understand how to write LINQ queries with Code First Approach.
4-Jul	Understand Authentication and Authorization - Role based Authorization (Admin and User roles)	- Explore authentication and authorization concepts and implementation in the project. - Hands on authentication concepts, Role-Based Access Control, and Access Control Lists (ACLs).	Implement project authorization  (Virtual Community Support). - Login Page. Learned and implemented role-based access control.
5-Jul	User Retrieval , User CRUD	Data retrieval using joins in the LINQ Query, Sorting, filtering and paging  Begin CRUD operations on the mission table (Retrieve and Insert).  Continue CRUD operations on mission records (Update and Delete).	Data retrieval, data filtration, using joins, filtration, sorting insertion, update, and deletion
8-Jul	Mission CRUD + Mission Theme CRUD	Begin CRUD operations on the mission theme table (Retrieve and Insert).  Continue CRUD operations on mission theme records (Update and Delete).	Data retrieval, data filtration, insertion, update, and deletion
9-Jul	Mission Skill CRUD -Mission Listing User Side	Begin CRUD operations on the mission Skill table (Retrieve and Insert).  Continued CRUD operations on mission Skill records (Update and Delete). - Retrieve and display mission records from the table.	Data retrieval, data filtration, insertion, update, and deletion - To display mission data on the user side.
10-Jul	Mission Apply , Mission Application CRUD	Develop an API to facilitate mission applications.  Complete CRUD operations on mission application records.	Implement a functionalities to apply for missions.  Retrieval of applied missions, data filtration, insertion, and deletion.
11-Jul	My Profile Page , Deployment	My Profile Page	Create My Profile Page and Prepare for project
12-Jul	Azure Session	Azure services and deployment	Expand knowledge to include Azure services and deployment.