

15-Days Summer Internship Training Plan –2025

(Virtual Community Support)

Day 1: Introduction to PostgreSQL

- Learn basics of SQL, set up PostgreSQL database, and Database Schema CI platform.
- **Hands-on:** Able to create, insert, Update, Delete and sub-query data in PostgreSQL.

Day 2: Introduction to Angular

- Explore Angular overview, build a basic application, and integrate basic Angular functionalities.
- **Hands-on:** Create a simple Angular application with forms and components.

Day 3: Introduction to .NET

- Introduction to .NET and web API. Understand Swagger.
- Understand N-tier Repository pattern folder structure and Entity Framework (EF).
- **Hands-on:** Familiarize with .NET project structure and EF.

Day 4: .NET with Code First approach, LINQ, and Login Page

- Understanding of LINQ.
- Understanding of Code First Approach.
- **Hands-on:** Build a login API and understand how to write LINQ queries with Code First Approach.

Day 5: Understand Authentication and Authorization

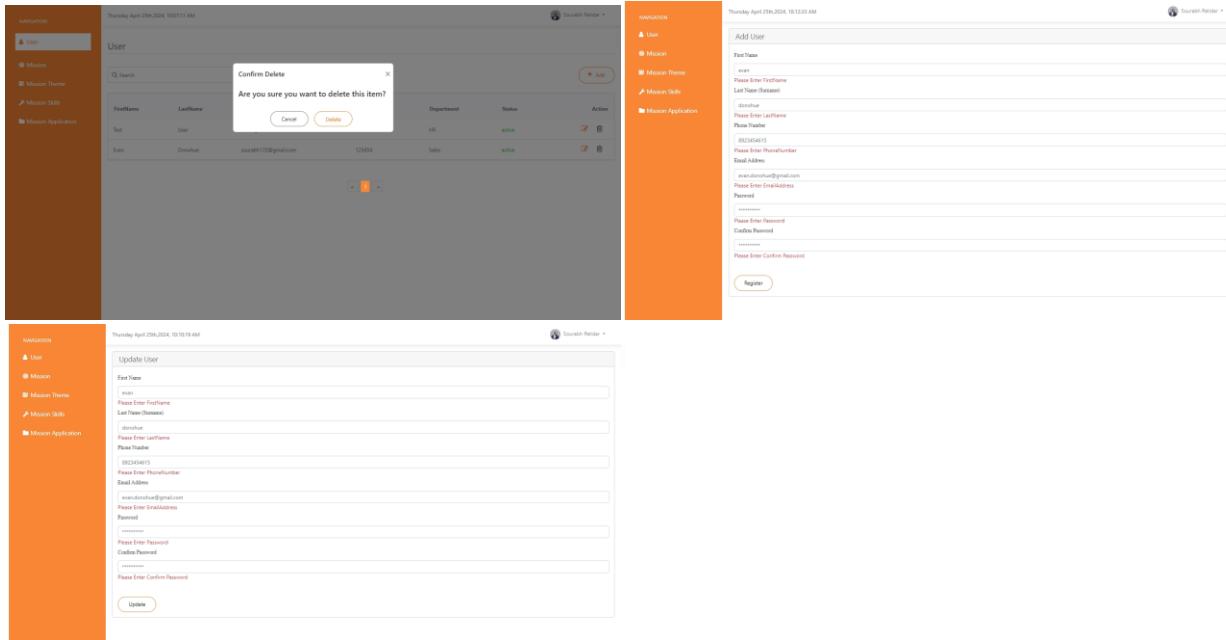
- Explore authentication and authorization concepts and implementation in the project.
- **Hands-on:** Understand and implement project authorization (Virtual Community Support).

Day 6: Role based Authorization (Admin and User roles)

- Hands on authentication concepts, Role-Based Access Control, and Access Control Lists (ACLs).
- **Hands-on:** Login Page. Learned and implemented role-based access control.

Day 7: User Retrieval

- Data retrieval using joins in the LINQ Query, Sorting, filtering and paging
- **Hands-on:** Data retrieval, data filtration, insertion, update, and deletion.

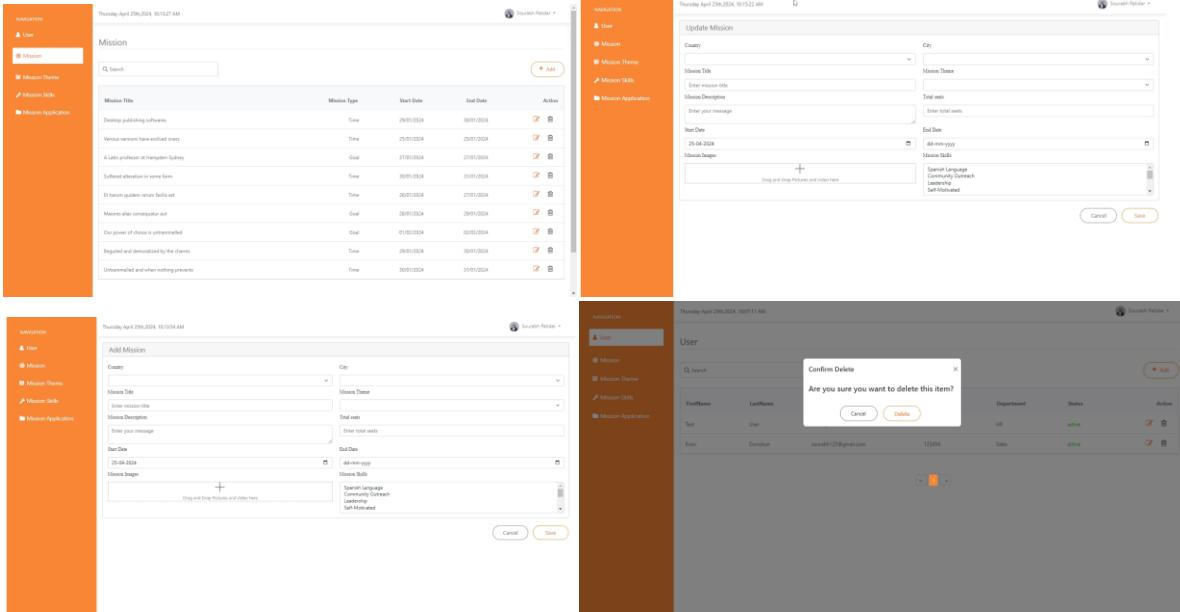


The image displays three screenshots of a web application interface, likely a CRM or similar system, showing user management features. The interface includes a navigation bar on the left with links for User, Mission, Mission Theme, Mission Skills, and Mission Application. The main content area shows a list of users with columns for FirstName, LastName, Department, Status, and Actions. A modal dialog titled "Confirm Delete" asks if the user wants to delete an item. The right side of the interface features an orange sidebar labeled "NAVIGATION" with links for User, Mission, Mission Theme, Mission Skills, and Mission Application. The top right corner of each screenshot shows a timestamp (e.g., Thursday April 25th, 2014, 10:57:11 AM) and a "Search Filter" button.

- Screenshot 1 (Top Left):** Shows a list of users with columns: FirstName, LastName, Department, Status, and Actions. A modal dialog titled "Confirm Delete" is open, asking "Are you sure you want to delete this item?" with "Cancel" and "Delete" buttons.
- Screenshot 2 (Top Right):** Shows the "Add User" form. Fields include: FirstName (ivan), LastName (Ivanov), Phone Number (0021404115), Email Address (ivan.ivanov@yandex.com), Password (password), and Confirm Password (password). A "Register" button is at the bottom.
- Screenshot 3 (Bottom):** Shows the "Update User" form for the user "ivan". It includes fields for FirstName (ivan), LastName (Ivanov), Phone Number (0021404115), Email Address (ivan.ivanov@yandex.com), Password (password), and Confirm Password (password). A "Update" button is at the bottom.

Day 8: User CRUD

- Begin CRUD operations on the mission table (Retrieve and Insert).
- Continue CRUD operations on mission records (Update and Delete).
- **Hands-on:** Insertion, update, and deletion

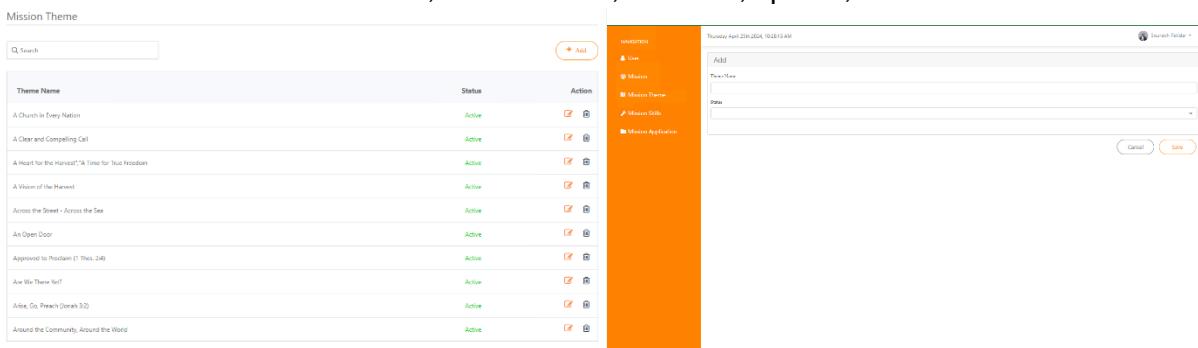


The screenshots illustrate the User and Mission management features of the application:

- User Management:** Shows a list of users with columns for Name, Email, Department, Status, and Action. A search bar at the top is used to filter results.
- Mission Management:** Shows a list of missions with columns for Mission Title, Mission Type, Start Date, End Date, and Action. A search bar at the top is used to filter results.
- Create Mission:** A modal window for creating a new mission. It includes fields for Mission Title, Mission Type, Start Date, End Date, Total seats, Mission Description, and a message area. It also includes fields for Mission Skills and Mission Applications, which can be added by dragging and dropping items from a sidebar.
- Update Mission:** A modal window for updating an existing mission. It shows the current mission details and allows modification of the Start Date, End Date, Total seats, and other fields.
- Delete Mission:** A confirmation dialog asking "Are you sure you want to delete this item?" with options to Cancel or Delete.
- User Details:** A detailed view of a user record showing Name, Email, Department, Status, and Action buttons.

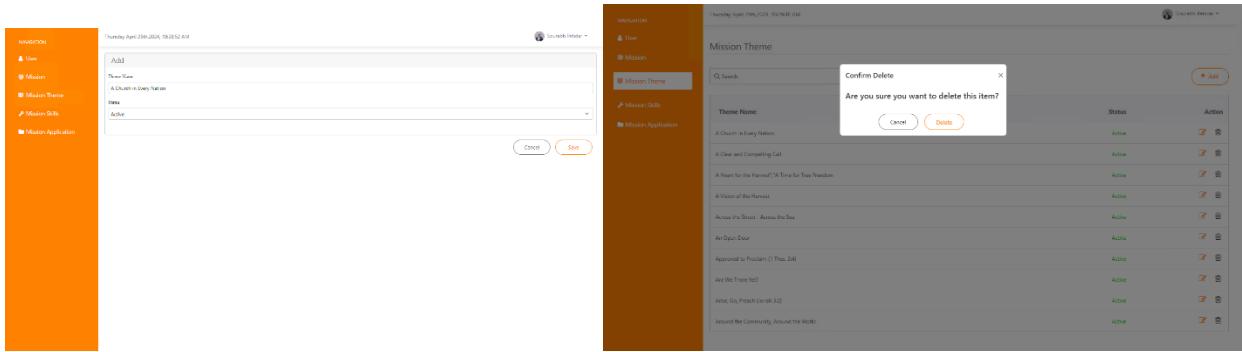
Day 9: Mission CRUD and Theme CRUD

- Begin CRUD operations on the mission theme table (Retrieve and Insert).
- Continue CRUD operations on mission theme records (Update and Delete).
- **Hands-on:** Data retrieval, data filtration, insertion, update, and deletion



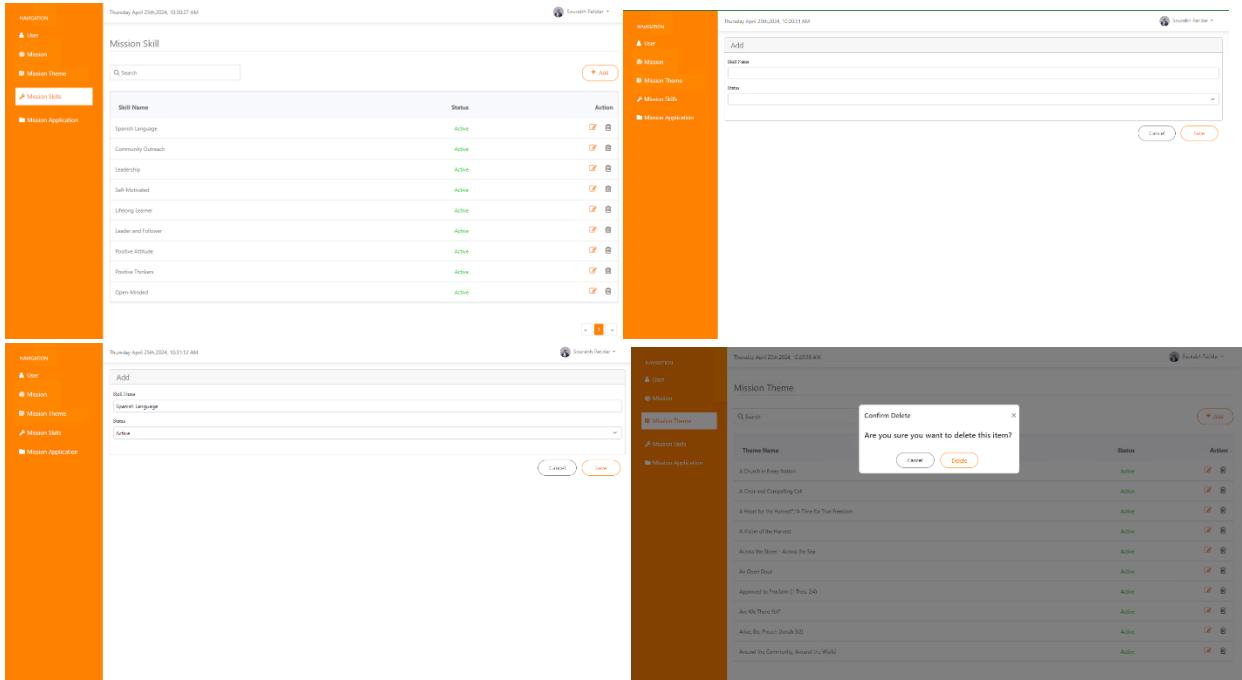
The screenshots illustrate the Mission Theme and Mission management features of the application:

- Mission Theme Management:** Shows a list of mission themes with columns for Theme Name, Status, and Action. A search bar at the top is used to filter results.
- Create Mission:** A modal window for creating a new mission. It includes fields for Mission Title, Mission Type, Start Date, End Date, Total seats, Mission Description, and a message area. It also includes fields for Mission Skills and Mission Applications, which can be added by dragging and dropping items from a sidebar.



Day 10: Mission Skill CRUD

- Begin CRUD operations on the mission Skill table (Retrieve and Insert).
- Continued CRUD operations on mission Skill records (Update and Delete).
- **Hands-on:** Data retrieval, data filtration, insertion, update, and deletion



Day 11: Mission Listing User Side

- Retrieve and display mission records from the table.
- **Hands-on:** To display mission data on the user side.

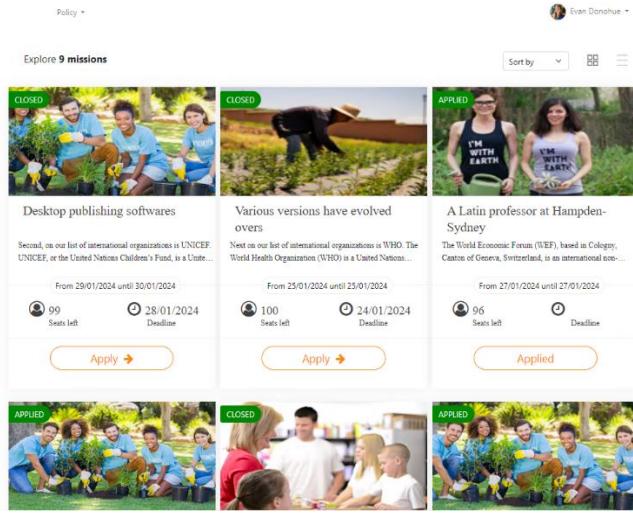
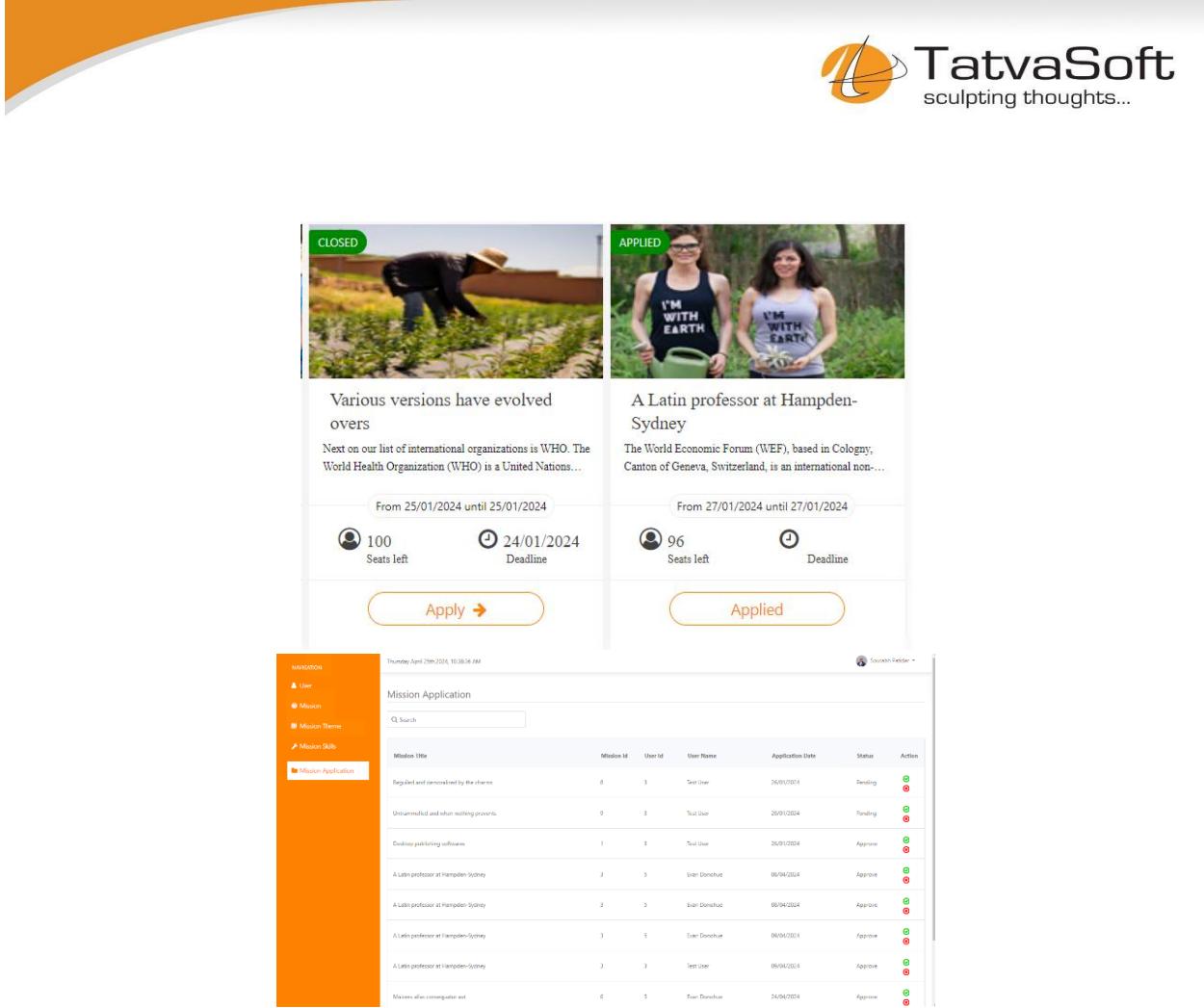


Image	Mission Title	Description	Status	Action
	Desktop publishing softwares	Second, on our list of international organizations is UNICEF, UNICEF, or the United Nations Children's Fund, is a Unit...	CLOSED	Apply
	Various versions have evolved over...	Next on our list of international organizations is WHO. The World Health Organization (WHO) is a United Nations...	CLOSED	Apply
	A Latte professor at Hampden-Sydney	The World Economic Forum (WEF), based in Cologny, Geneva, Switzerland, is an international soc...	APPLIED	Applied
	From 29/01/2024 until 30/01/2024	From 29/01/2024 until 30/01/2024	99 Seats left	Apply
	From 25/01/2024 until 25/01/2024	From 25/01/2024 until 25/01/2024	100 Seats left	Apply
	From 27/01/2024 until 27/01/2024	From 27/01/2024 until 27/01/2024	96 Seats left	Applied

Day 12: Mission Apply, Mission Application CRUD (Apply mission List through user)

- Develop an API to facilitate mission applications.
- Complete CRUD operations on mission application records.
- Create search API for mission applications.
- **Hands-on:** Implement a few functionalities to apply for missions.

Retrieval of applied missions, data filtration, insertion, and deletion.



The screenshot shows a web application interface with two main sections: a mission application form and a mission application list.

Mission Application Form:

- CLOSED**: A thumbnail image of a person working in a field.
- APPLIED**: Two women standing outdoors, both wearing tank tops that say "I'M WITH EARTH".
- Various versions have evolved over**: A short description.
- Next on our list of international organizations is WHO. The World Health Organization (WHO) is a United Nations...**: A snippet of text.
- From 27/01/2024 until 27/01/2024**: Date range.
- 100 Seats left**: Seats available.
- 24/01/2024 Deadline**: Deadline.
- Apply ➔**: A button to submit the application.
- Applied**: A status message indicating the application has been submitted.

Mission Application List:

Mission Title	Mission ID	User ID	User Name	Application Date	Status	Action
Regulated and monitored by the church	1	1	Test User	26/01/2024	Pending	Pending Delete
Unplanned and when nothing prevents	2	2	Test User	26/01/2024	Pending	Pending Delete
Desktop publishing software	3	3	Test User	26/01/2024	Approved	Approved Delete
A Latin professor at Hampden-Sydney	4	4	Evan Donohue	06/04/2024	Approved	Approved Delete
A Latin professor at Hampden-Sydney	5	5	Evan Donohue	06/04/2024	Approved	Approved Delete
A Latin professor at Hampden-Sydney	6	6	Evan Donohue	06/04/2024	Approved	Approved Delete
Macros alias configuration set	7	7	Evan Donohue	24/04/2024	Approved	Approved Delete

Day 13: My Profile Page and Deployment

- My Profile Page
- Explore configuring deployment environments and strategies.
- **Hands-on:** Create My Profile Page and Prepare for project deployment using various strategies.

Policy ▾

Evan Donohue ▾



Evan Donohue
Change Password

Basic Information

Name*	Surname*
Evan	Donohue
Employee ID	Manager
123454	Manager
Title	Department
Demo	Sales
My Profile*	
sdf	

Day 14: Discussion

Day 15: AWS Session

- AWS services and deployment
- **Hands-on:** Expand knowledge to include AWS services and deployment.