

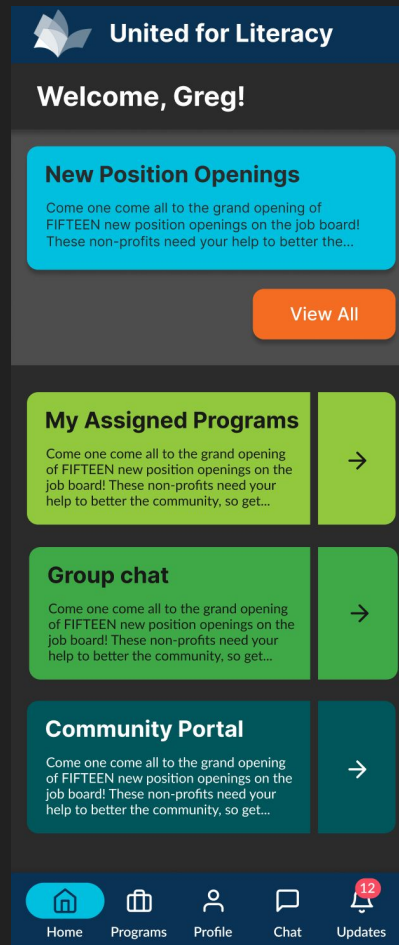


EST. 1899

United for Literacy
Littératie Ensemble

Volunteer App

Team 5 | 46761d22



Partner & Problem Space



- Our Partner
 - United for Literacy
- The Problem
 - Volunteer resources are scattered and difficult to use
- Our solution
 - Create an app that integrates with Salesforce
 - Develop an intuitive user interface for volunteers



Demo!

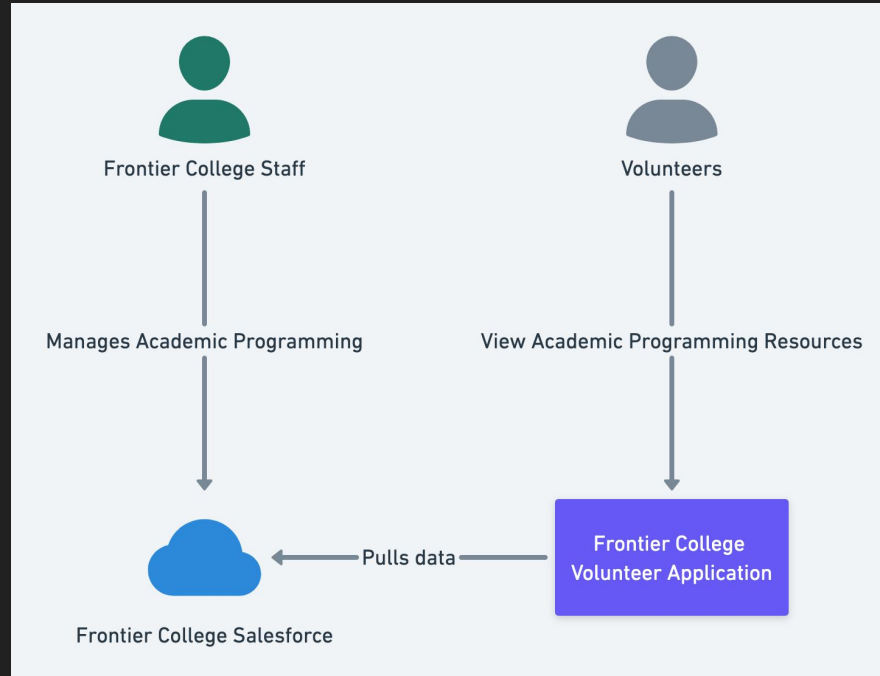
[App in Production](#)

[Salesforce](#)

Process and Accessing your Application

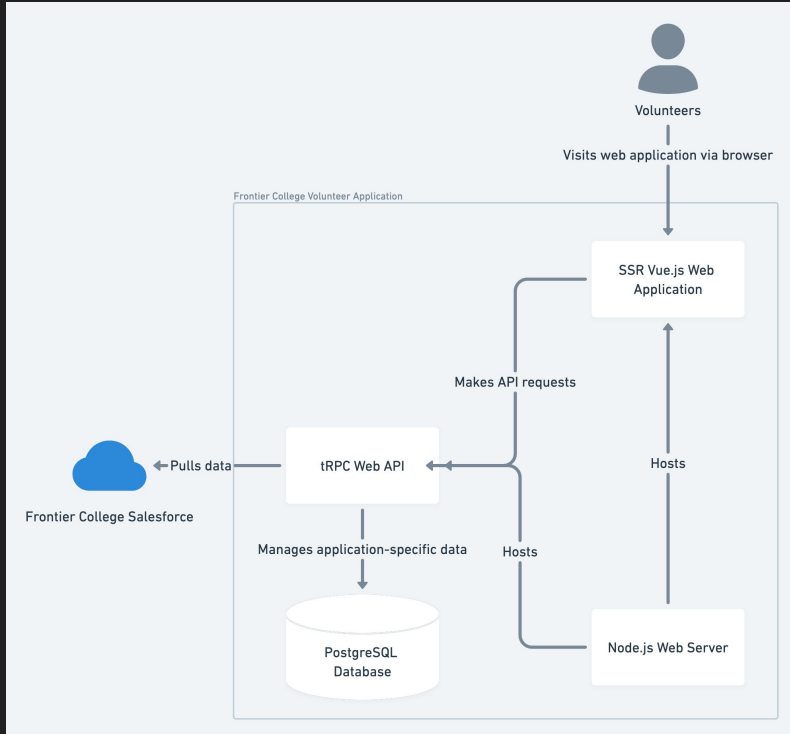
- Team processes
 - The git workflow we chose keeps the main branch deployable and we use feature branches for interim changes
 - Github project (Kanban) helps our team plan and track work efficiently
 - Used Discord for internal communication and MS Teams to talk to our client
 - Holding weekly meetings during tutorials to discuss the next steps for the project
- Handoff
 - We will turn off hosting after the course
 - We will record a demo video for the client to show off our app internally
 - We will hand over the repository including technical documentation for maintaining, developing, and deploying the app

Technical Discussion



High level system architecture

Web Application Architecture



- Web application architecture
- Type-safety between frontend, backend, and database
- Unit and E2E testing
- Easily deployable

Salesforce API Integration & Difficulty

Query Endpoint

```
baseurl/services/data/{version}/query?q=` +  
encodeURIComponent(statement)
```

- Create an SOQL SELECT query using the Salesforce object API names.
- Example: SELECT Id, Name, Email, RecordTypeId FROM Contact WHERE Id='userid'
- Contact is the object, Id, Name etc are the fields of the object.
- The SELECT query is encoded into a URI component to be used in the endpoint.

Chatter Endpoint

```
baseurl/services/data/{version}/chatter/feeds/user-profile/{userid}/feed-elements
```

- Specifically for chatter, it is a messaging board on salesforce. This is where each group will have their announcements
- Retrieves all messages in order of time posted.

Program Object

API Name

pmdm__Program__c

Fields

FIELD LABEL	FIELD NAME
ChatterGroupID	ChatterGroupID__c
Created By	CreatedById

Key Learnings

- Earlier and more frequent internal communication
 - Formatting issues can be mitigated
 - We underestimated the communication overhead
- Clarity is key for asynchronous work
 - Practiced clear communication skills

Thank you!

Individual Contributions

- **Samm:** product management, backend architecture, backend development, unit testing, troubleshooting, UI prototyping
- **Zachary:** frontend development, UI prototyping
- **Shawn:** frontend development
- **Ricky:** backend development, unit testing
- **Michael:** Project management, hosting/infrastructure, frontend development
- **Patrick:** backend development, unit tests
- **Greg:** UI prototyping, backend development, unit tests