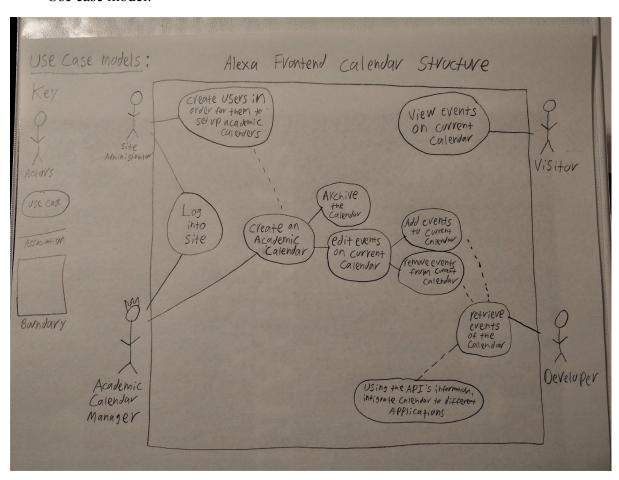
CSC 440-001 - Fall 2019: Software Engineering Group 1
Comprehensive Final Project Documentation
(Includes Pitch, Design, and Testing)
Monday, December 9, 2019

Objective

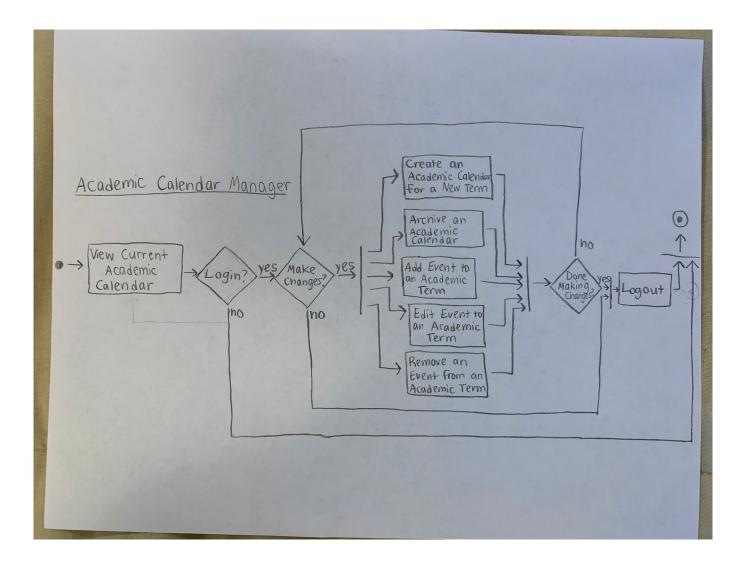
Our objective was to create a web-based application that maintains the Adelphi Academic Calendar. This calendar will be queried using a front end calendar interface as well as the Amazon Alexa skill. We utilized a web calendar using HTML and CSS that through PHP and JavaScript would connect to our SQL database.

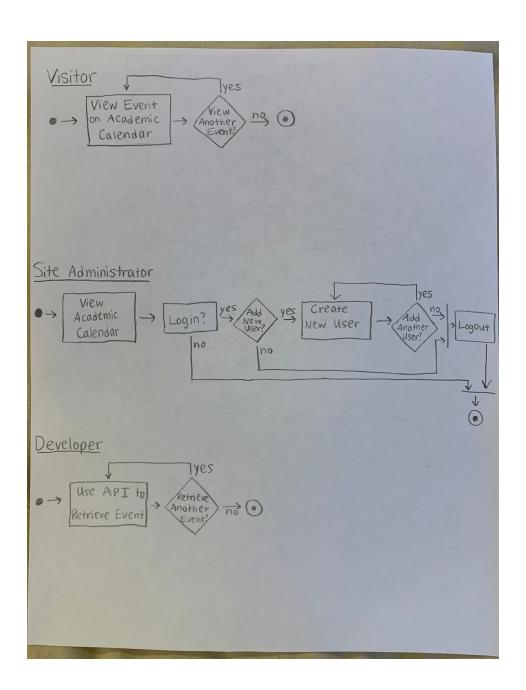
Planning

Use case model:

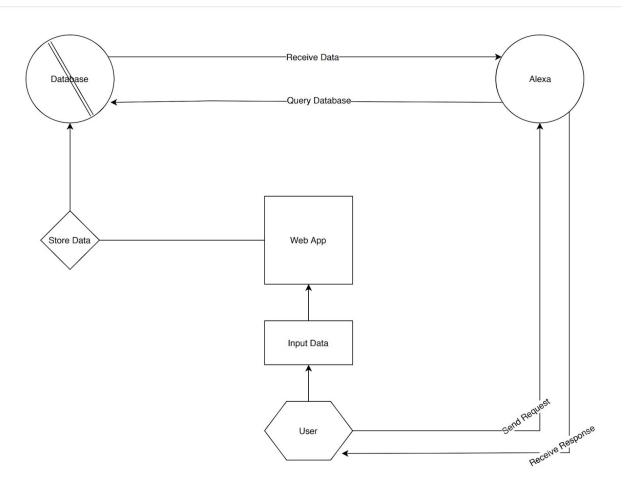


Activity Diagrams:



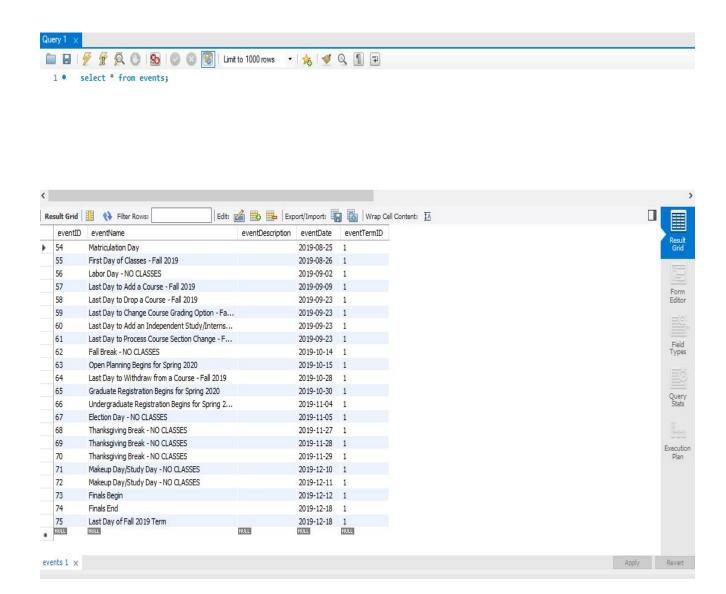


Basic Workflow:

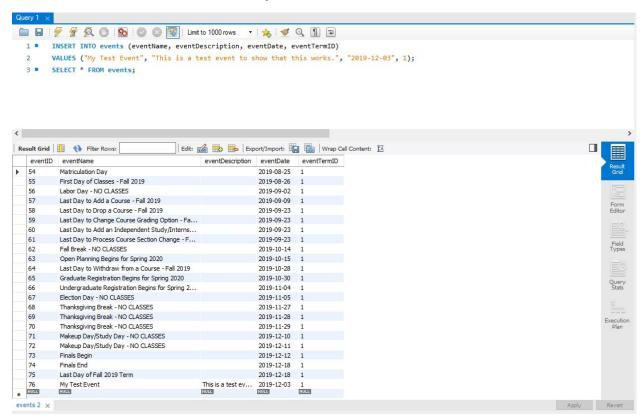


Frontend and Backend Testing

To ensure the correctness of our database, we began by using SQL commands directly in MySQL Workbench to ensure our mock data is present. Selecting all items from the events table correctly displays our data:



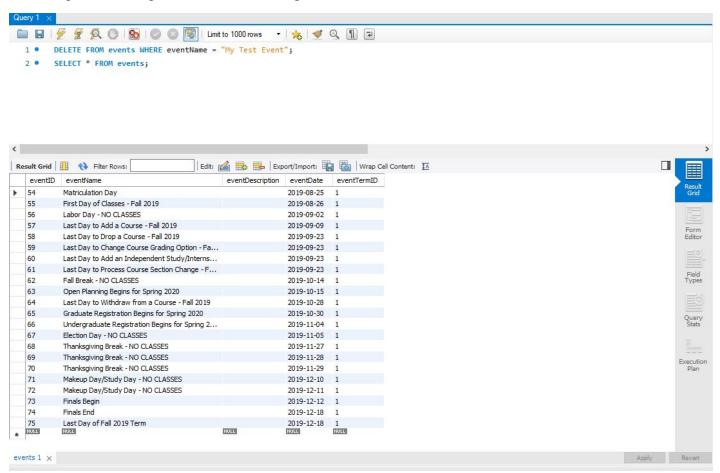
To test that events can be correctly added, we added a test event using the insert command and the event was successfully added to our database:



To ensure that our website interface was properly connected to our database, we periodically checked the website (accessible through files hosted on the compsci.adelphi.edu server) and checked that the events were present and correct:

Adelphi Academic Cal			Nevember 2010					
	-		November 2019 >					
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	s		
Last Day to Withdraw from a Course - Fall 2019	29	30 Graduate Registration Begins for Spring 2020	31	1	2	3		
4 Undergraduate Registration Begins for Spring 2020	5 Election Day - NO CLASSES	6	7	8	9	10		
11	12	13	14	15	16	17		
18	19	20	21	22	23	24		
25	26	27 Thanksgiving Break - NO CLASSES	28 Thanksgiving Break - NO CLASSES	Thanksgiving Break - NO CLASSES	30	1		
2	3 My Test Event	4	5	6	7	8		

Upon removing the test event utilizing direct SQL commands...



The event was removed from both our database and front end calendar interface connected to our database, as can be seen through the above and below screenshots.

Adelphi Academic Cal	endar		Calendar Login					
			< November 2019 >					
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday			
28 Last Day to Withdraw from a Course - Fall 2019	29	30 Graduate Registration Begins for Spring 2020	31	1	2			
4 Undergraduate Registration Begins for Spring 2020	5 Election Day - NO CLASSES	6	7	8	9	_		
11	12	13	14	15	16	_		
18	19	20	21	22	23	_		
25	26	27 Thanksgiving Break - NO CLASSES	28 Thanksgiving Break - NO CLASSES	29 Thanksgiving Break - NO CLASSES	30	_		
2	3	4	5	6	7	_		

We also wanted to be able to add events utilizing the calendar interface. While removing and editing were planned, we used our available time to optimize and fully test only the add functionality. Pressing create event creates the chance to enter relevant information to an event:

Title:	
Test Event, New Year's Day	
Date:	
01/01/2020	
Description:	
Testing purposes	

Upon pressing the create button, the event is successfully added to our calendar.



As well as our database:

```
mysql> select * from events;
eventID | eventName
                                                                       | eventD
escription | eventDate | eventTermID |
      54 | Matriculation Day
          | 2019-08-25 |
      55 | First Day of Classes - Fall 2019
      | 2019-08-26 | 1 |
56 | Labor Day - NO CLASSES
          | 2019-09-02 | 1 |
      57 | Last Day to Add a Course - Fall 2019
          | 2019-09-09 |
      58 | Last Day to Drop a Course - Fall 2019
      59 | Last Day to Change Course Grading Option - Fall 2019
          | 2019-09-23 |
      60 | Last Day to Add an Independent Study/Internship - Fall 2019 |
          | 2019-09-23 |
      61 | Last Day to Process Course Section Change - Fall 2019
          | 2019-09-23 |
      62 | Fall Break - NO CLASSES
      63 | Open Planning Begins for Spring 2020
          | 2019-10-15 |
      65 | Graduate Registration Begins for Spring 2020
      66 | Undergraduate Registration Begins for Spring 2020
          | 2019-11-04 |
      67 | Election Day - NO CLASSES
          | 2019-11-05 |
      68 | Thanksgiving Break - NO CLASSES
          | 2019-11-27 |
      69 | Thanksgiving Break - NO CLASSES
      70 | Thanksgiving Break - NO CLASSES
          | 2019-11-29 |
      71 | Makeup Day/Study Day - NO CLASSES
      | 2019-12-11 | 1 | 72 | Makeup Day/Study Day - NO CLASSES | 2019-12-11 | 1 |
      73 | Finals Begin
         | 2019-12-12 |
      74 | Finals End
          | 2019-12-18 |
      75 | Last Day of Fall 2019 Term
          | 2019-12-18 | 1 |
      77 | Test Event, New Year's Day
                                                                       | Testin
 purposes | 2020-01-01 | 1 |
mysql>
```

Upon a deletion command on the test event:

mysql> DELETE FROM events mysql> DELETE FROM events WHERE eventName Day"; Query OK, 1 row affected (0.03 sec)

The calendar is also successfully affected:

	Adelphi Academic Calendar					Ca		
vent	< January 2020 >							
	Monday	Tuesday	Wednesday	Thursday	T	Friday		
	30	31	1	2	3			

Links

Link to website:

https://compsci.adelphi.edu:8842/~frankiecolasurdo/Calendar/

Link to Jira:

https://csc-jira.adelphi.edu/projects/SEF19P2G1/summary

Link to repo:

https://csc-bitbucket.adelphi.edu/projects/SEF19FP1/repos/se-f19-final-project-group-1/browse