

1. **Team:** Samuel Cuthbertson (scuthbert), Connor Hudson (technoboy10)
2. **Title:** fcq.fun
3. **Project Summary:** A CU faculty course questionnaire viewer with improved readability, focused mainly on graphs. Limited to Boulder campus, initially limited to College of Engineering results.
4. **Project Requirements:**

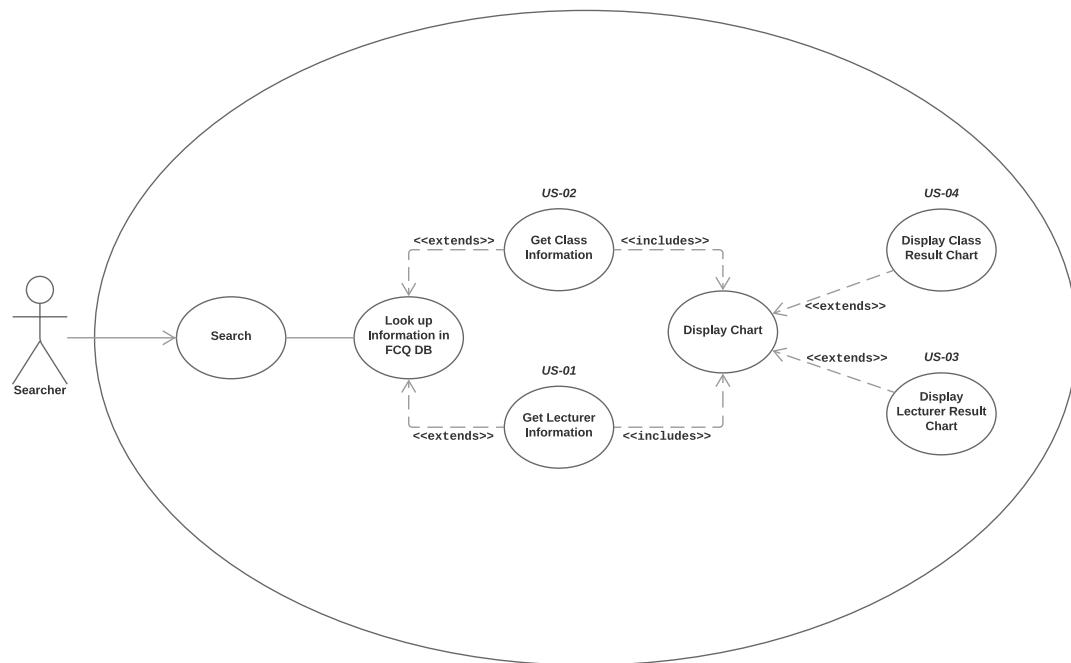
ID	Description
US-01	As a user, I can search by lecturer name in the format (Lastname, Firstname) to see results of that professors FCQ results.
US-02	As a user, I can search by course code to see results of that course's FCQ results.
US-03	As a user, I want to see the following on a chart as results of a professor search: Instructor Overall, Instructor's Effectiveness, Availability, Instructor's Respect.
US-04	As a user, I want to see the the following on a chart as the results of a class search: Course Overall, Hours per Week, Challenge, How Much Learned.
FR-01	Queries to the FCQ database should be limited to College of Engineering and Applied Science results.
FR-02	Queries to the FCQ database should bound "First Term" as Fall 2006 and "Last Term" as Summer 2017.
NFR-01	<u>Platform Constraints:</u> The page should display the same across multiple browsers.
NFR-02	<u>Reliability:</u> In the event of a failed database query, a user facing error alert should appear.
NFR-03	<u>Legal:</u> All code will be protected under the GNU-General Purpose license, hosted as LICENSE in the GitHub repository.

5. Use Cases:

1. Use Case Overview:

FCQ.FUN USE-CASE OVERVIEW

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2. Use Case Document(s):

Use Case ID:	US-01
Use Case Name:	Get Lecturer Information
Description:	Searcher can search for lecturers.

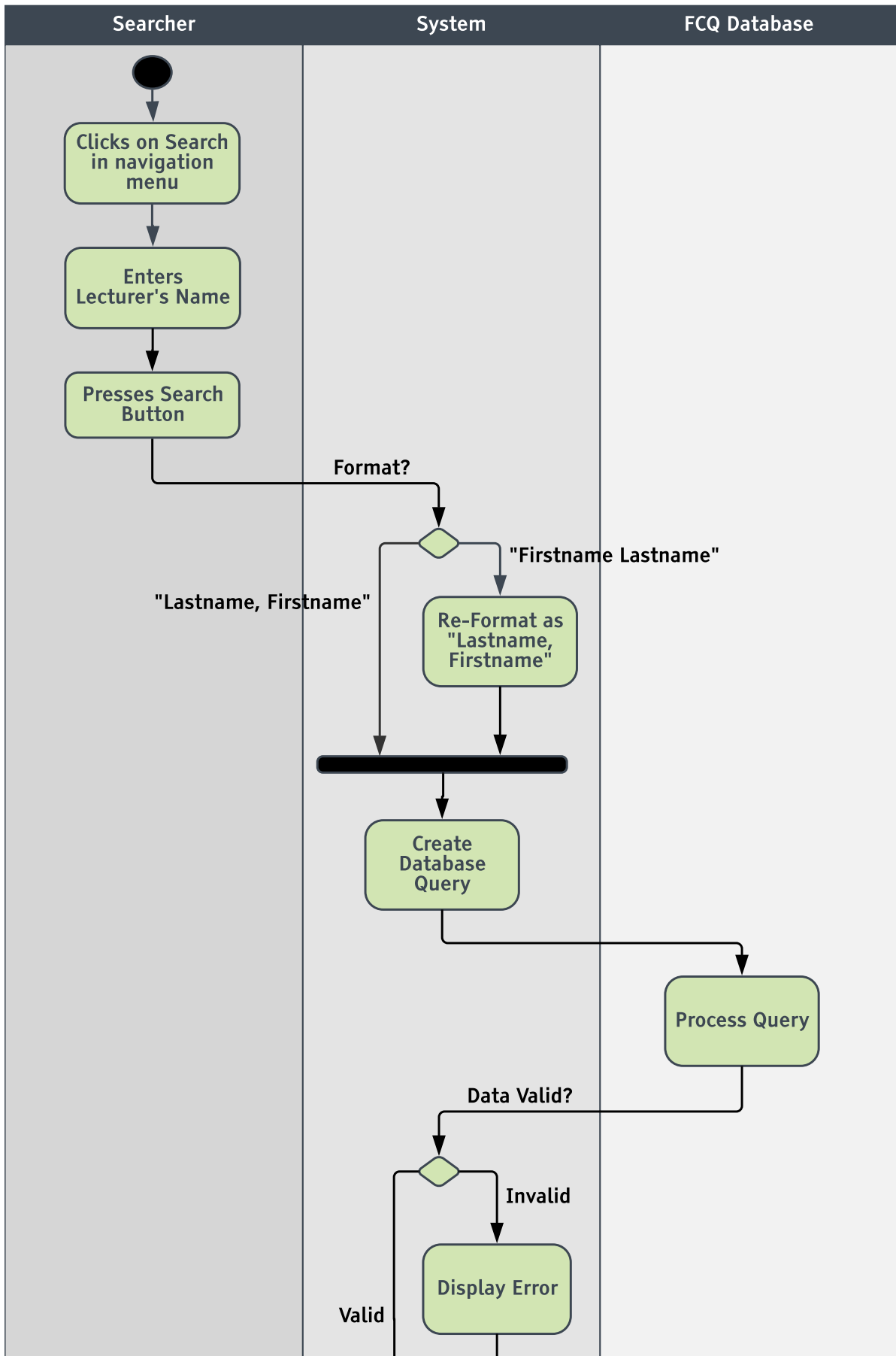
Actors:	Searcher		
Pre-conditions:	Searcher has navigated to the search page.		
Post-conditions:	Searcher is redirected to a lecturer information display page (see US-03).		
Frequency of Use:	Upon need by searchers.		
Flow of Events:		Actor Action	System Response
	1	Click on Search in navigation menu.	
	2	Enter a lecturer name in a search bar in the format "Lastname, Firstname".	
	3	Click Search button.	System queries FCQ database for lecturer with given name, checks data for validity.
	4		System redirects user to US-03.
Variations:	2. User enters lecturer name in the format "Firstname Lastname"		
Exceptions:	4. Error message: No lecturer found with provided name or database error.		
Developer Notes:	Use regex for pattern matching to see if user has entered information correctly: w/ comma means "Lastname, Firstname" w/o comma means "Firstname Lastname"		

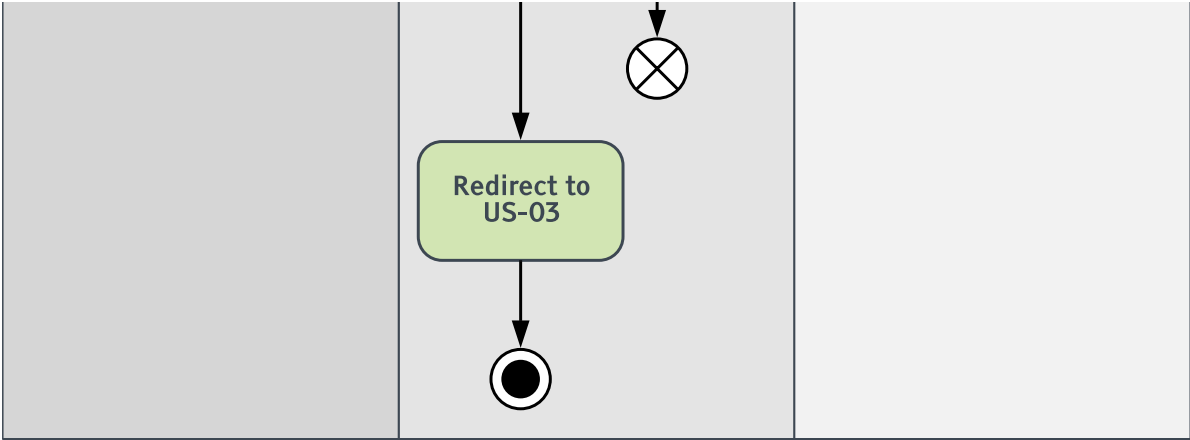
Use Case ID:	US-04
Use Case Name:	View Class Information
Description:	Searcher can view various information about a class

Actors:	Searcher		
Pre-conditions:	Searcher has searched for a class (US-02).		
Post-conditions:	Searcher is presented with requested information.		
Frequency of Use:	Upon search for class.		
Flow of Events:		Actor Action	System Response
	1		Page load, system parses data fetched in US-02.
	2		System initially displays 'Course Overall' on a time graph.
	3	User selects specific field(s) to display on a graph.	System displays the desired field(s) from the fetched data on a time graph.
Variations:	2.		
Exceptions:	4. Error message: No data found for selected field(s) for <class>.		
Developer Notes:	See UI Mockups for an example of a time graph.		

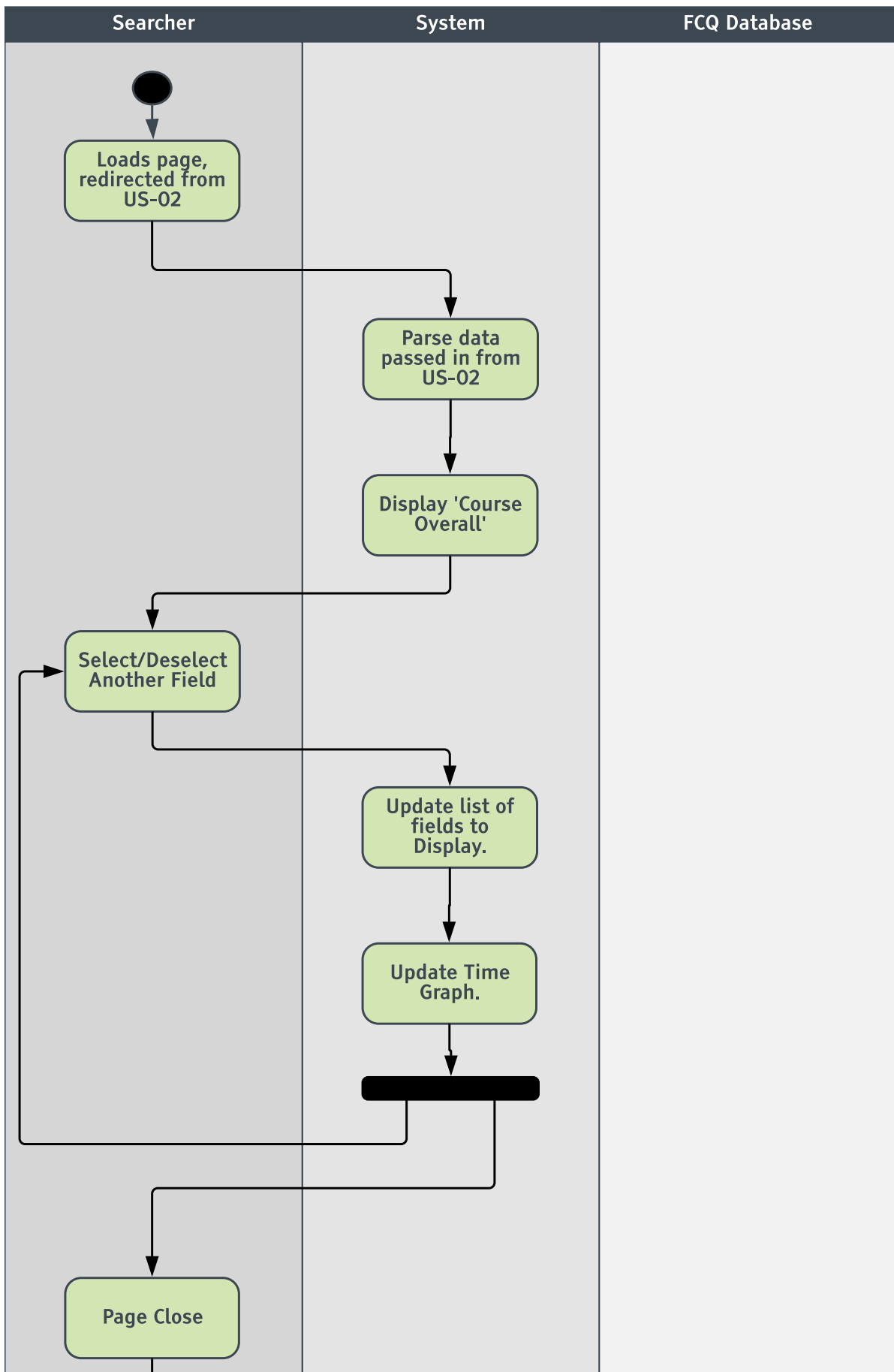
6. Activity Diagram:

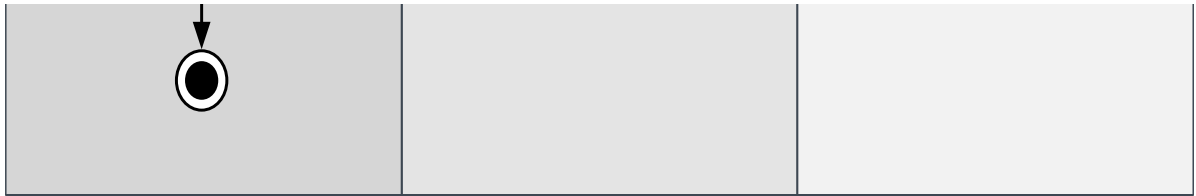
Activity Diagram for US-01: Get Lecturer Information



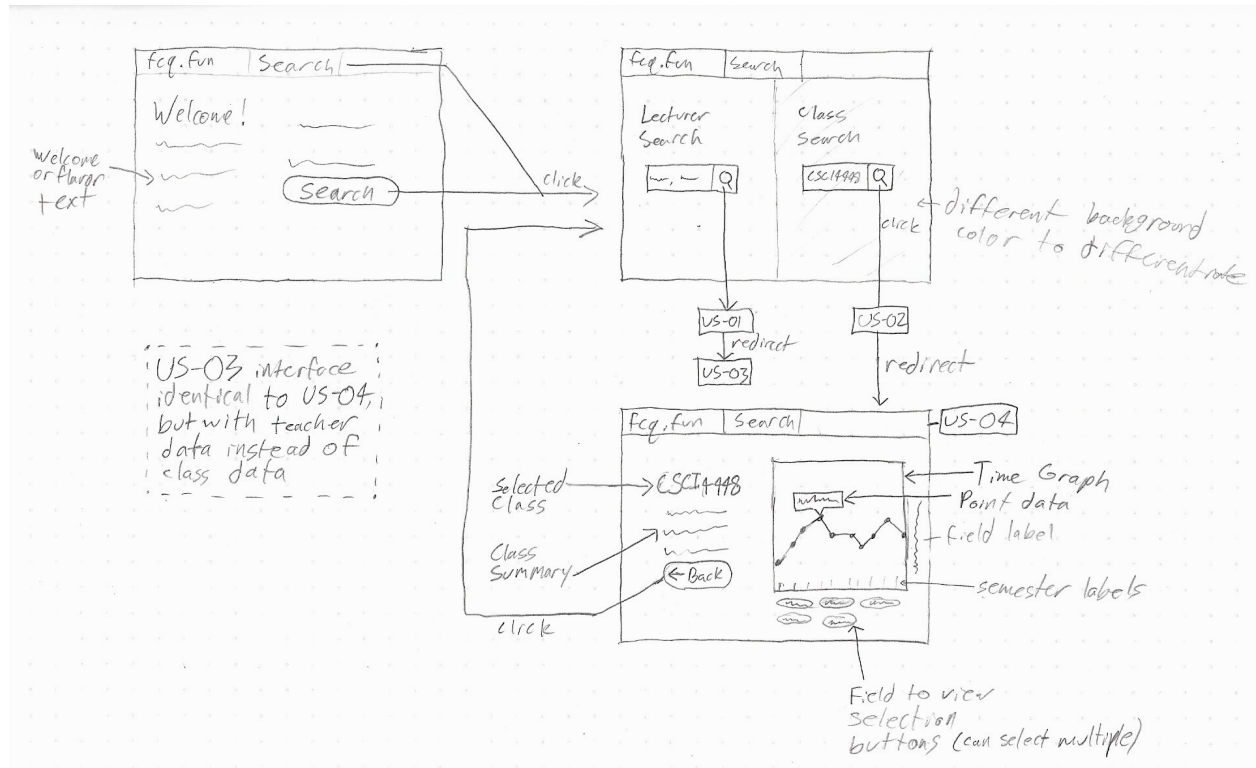


Activity Diagram for US-04: View Class Information





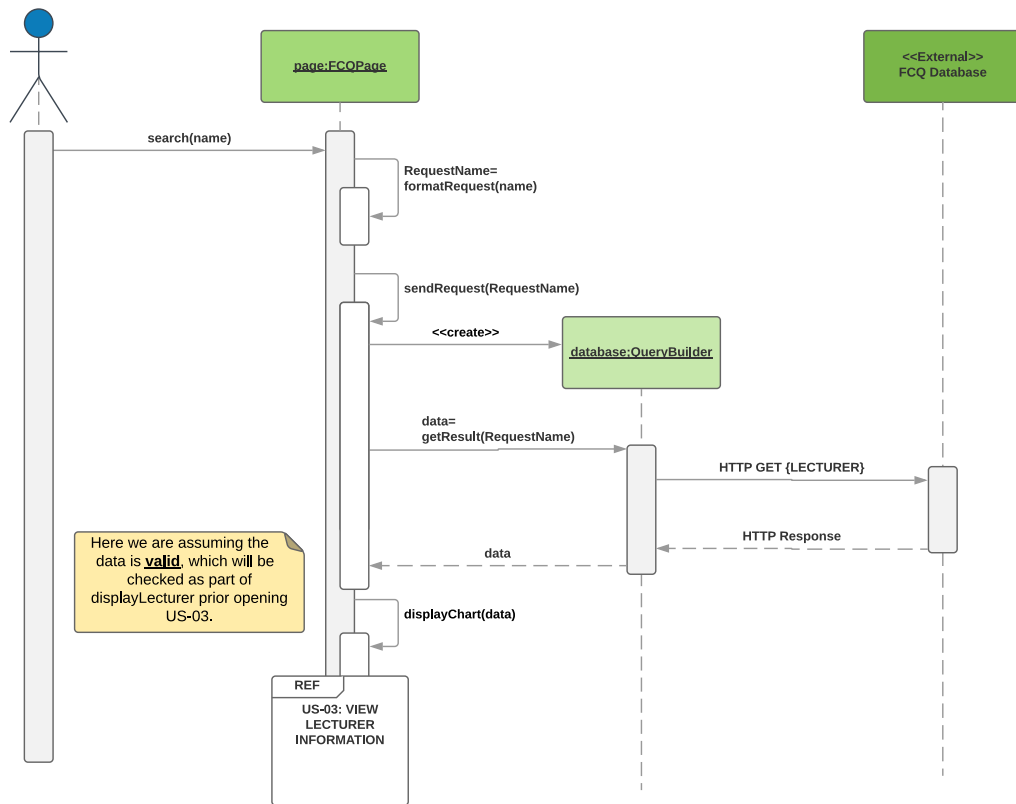
7. **UI Mockups:** Create screen mockups for the user interface of various parts of your application.



8. User Interactions:

US-01 SEQUENCE DIAGRAM 1: GET LECTURER INFO

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US-01 SEQUENCE DIAGRAM 2: GET LECTURER INFO

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