



## **SOFTWARE DESIGN**

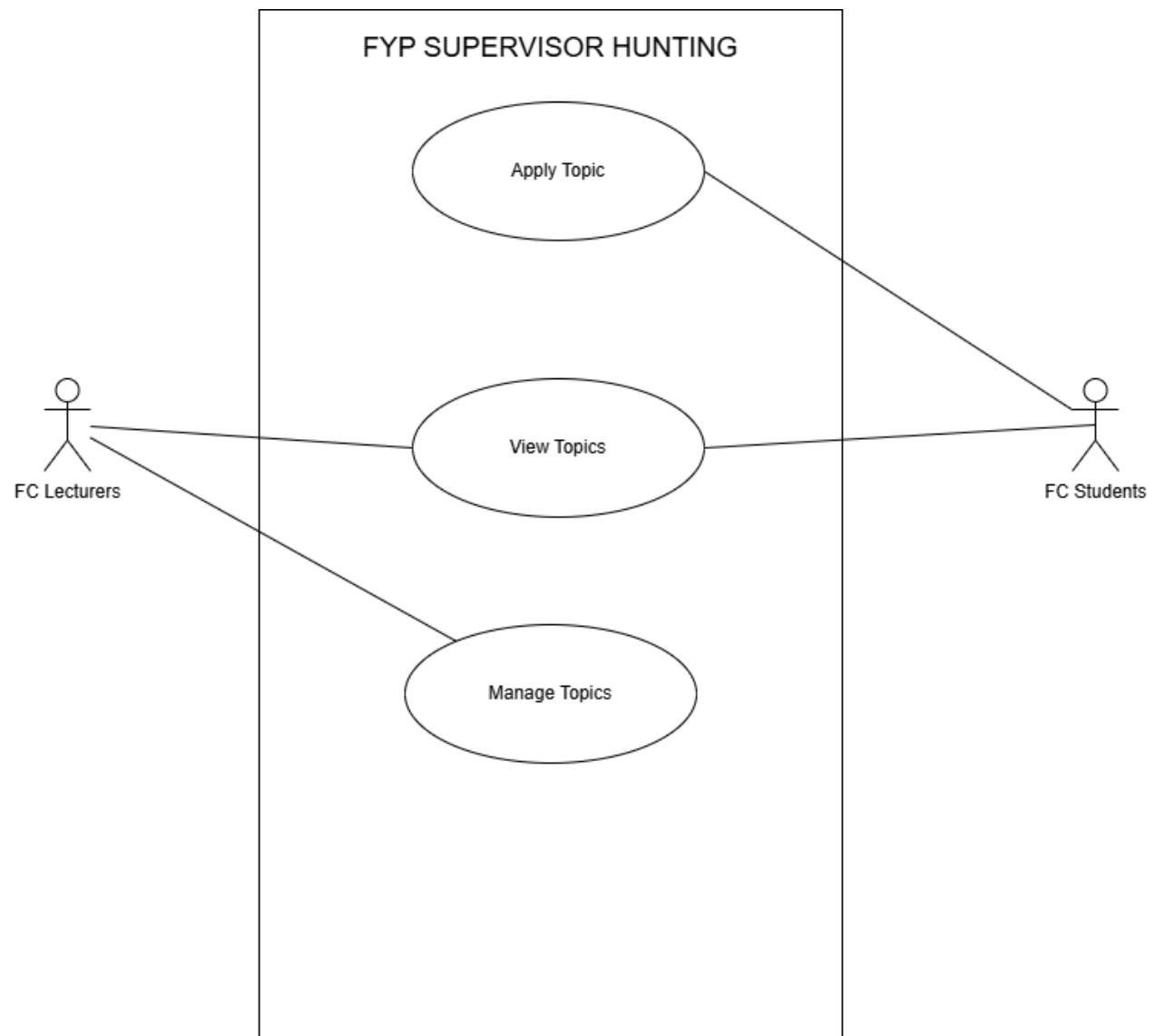
### **SECTION 01A**

#### **SRS**

#### **Group Members:**

<b>No.</b>	<b>Name</b>	<b>Matric ID</b>
1	OTHMAN ABDULAZIZ	CB22022

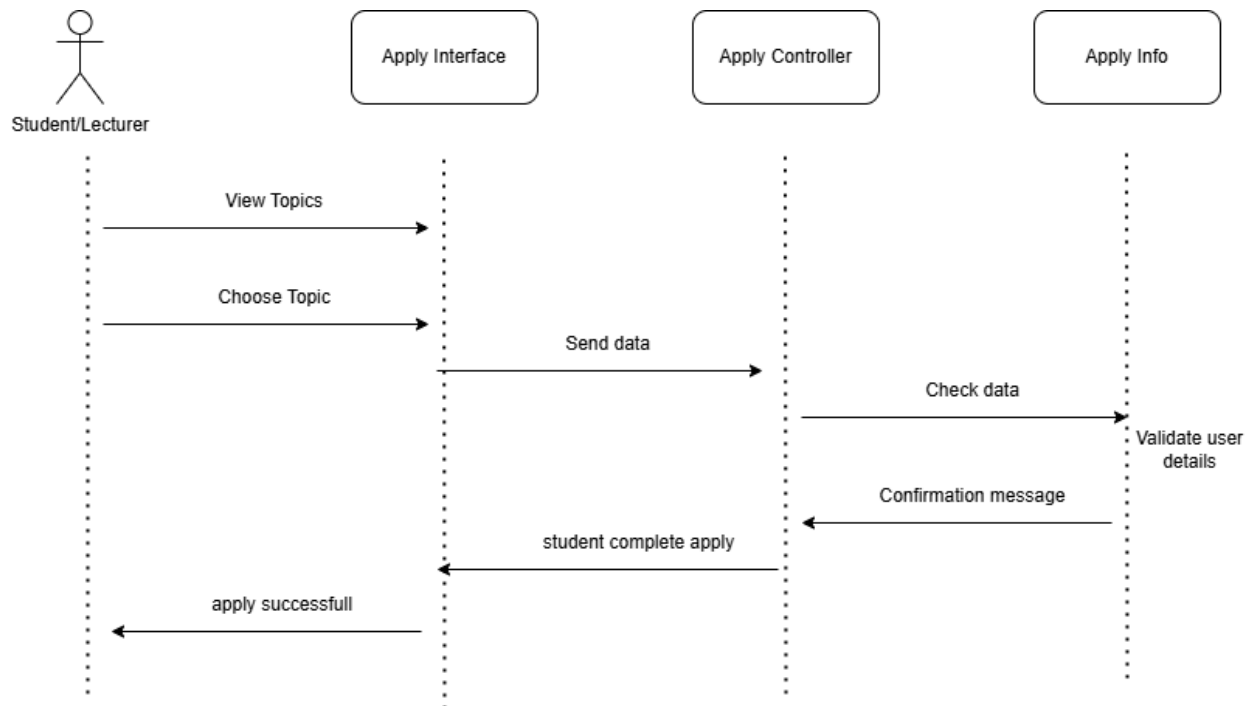
Use Case Diagram:



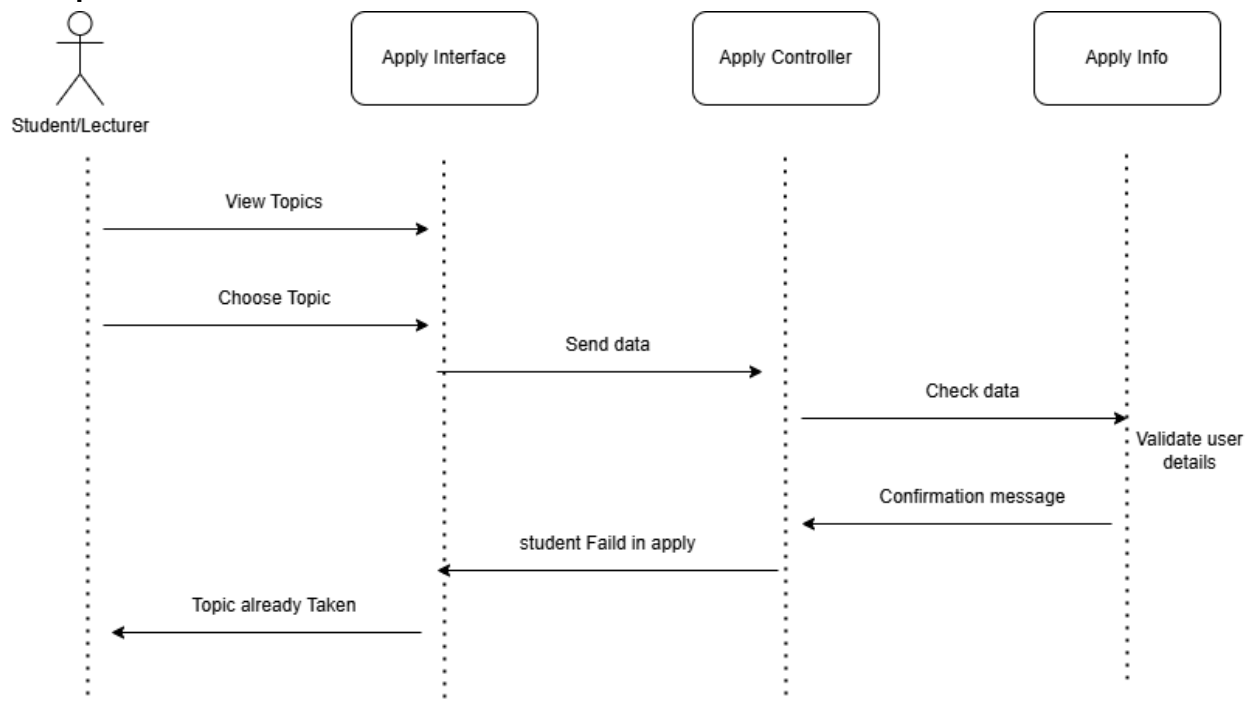
Use Case Discription:

<b>Use Case ID</b>	<b>UC001</b>
<b>Feature</b>	FYP Topic Application
<b>Purpose</b>	Allow students to view, select, and apply for FYP topics posted by lecturers.
<b>Actor(s)</b>	FC Students, FC Lecturers
<b>Preconditions</b>	<ol style="list-style-type: none"> <li>1. FC Lecturers have posted available FYP topics.</li> <li>2. Students and lecturers are logged into the system.</li> <li>3. System displays a list of available topics.</li> </ol>
<b>Main Flow</b>	<ol style="list-style-type: none"> <li>1. <b>FC Student</b> views the list of available topics.</li> <li>2. <b>FC Student</b> selects a topic and clicks <b>"Apply"</b>. (<b>Refer to E1 if the topic is already taken</b>).</li> <li>3. <b>System</b> updates the topic status to <b>"Pending"</b> and notifies the respective lecturer.</li> <li>4. <b>FC Lecturer</b> views the application and either: <ol style="list-style-type: none"> <li>a) Accepts the topic.</li> <li>b) Rejects the application (<b>Refer to E2 if rejected</b>).</li> </ol> </li> <li>5. <b>System</b> updates the topic status and sends a notification to the student.</li> <li>6. If <b>Accepted</b>, the <b>System</b> updates the lecturer's quota automatically. (<b>Refer to E3 if lecturer's quota is full</b>).</li> </ol>
<b>Exception Flows</b>	<p>E1: Topic Already Taken</p> <ul style="list-style-type: none"> <li>- The system prevents the student from applying for a topic that is already accepted.</li> <li>- System displays: "This topic is no longer available. Please choose another topic."</li> </ul> <p>E2: Lecturer Rejects Application</p> <ul style="list-style-type: none"> <li>- System updates the topic status to "Rejected".</li> <li>- System notifies the student of the lecturer's decision.</li> </ul> <p>E3: Quota Full</p> <ul style="list-style-type: none"> <li>- System prevents further applications when the lecturer's quota is full.</li> <li>- System displays: "Lecturer quota is full. Please select another lecturer or topic."</li> </ul>

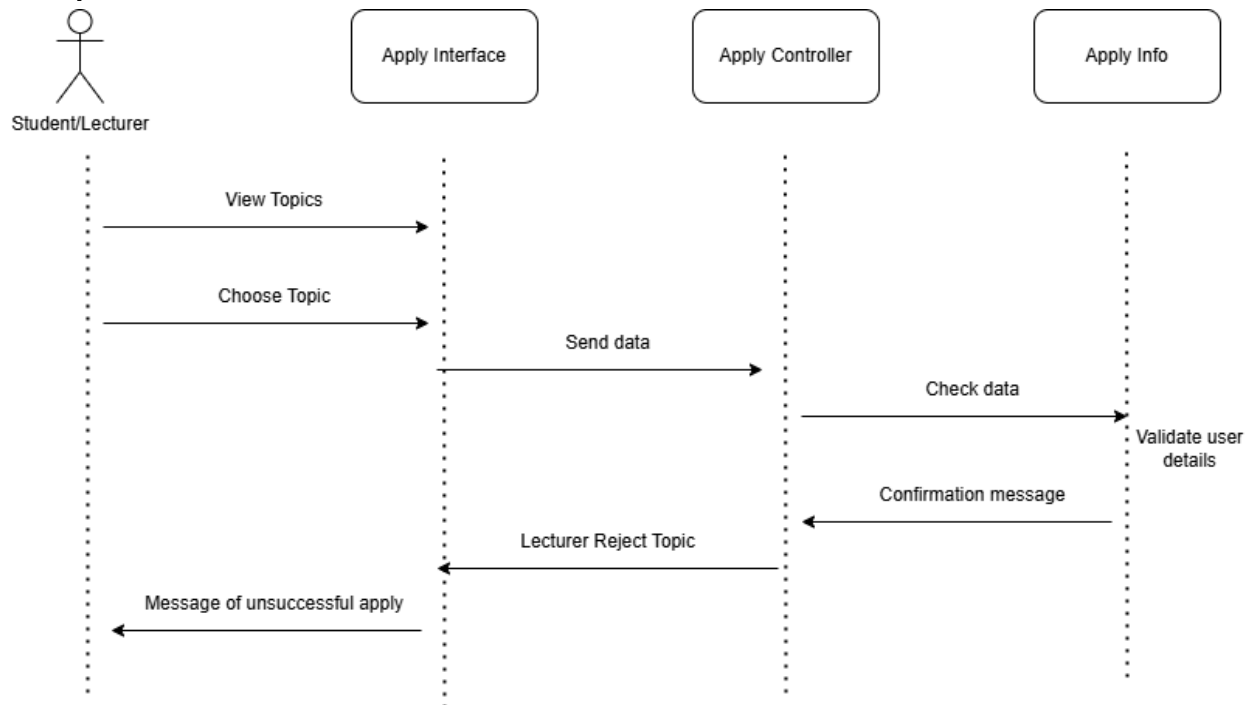
## Sequence Diagram:



## Exception Flows 1:



### Exception Flows 2:



### Exception Flows 3:

