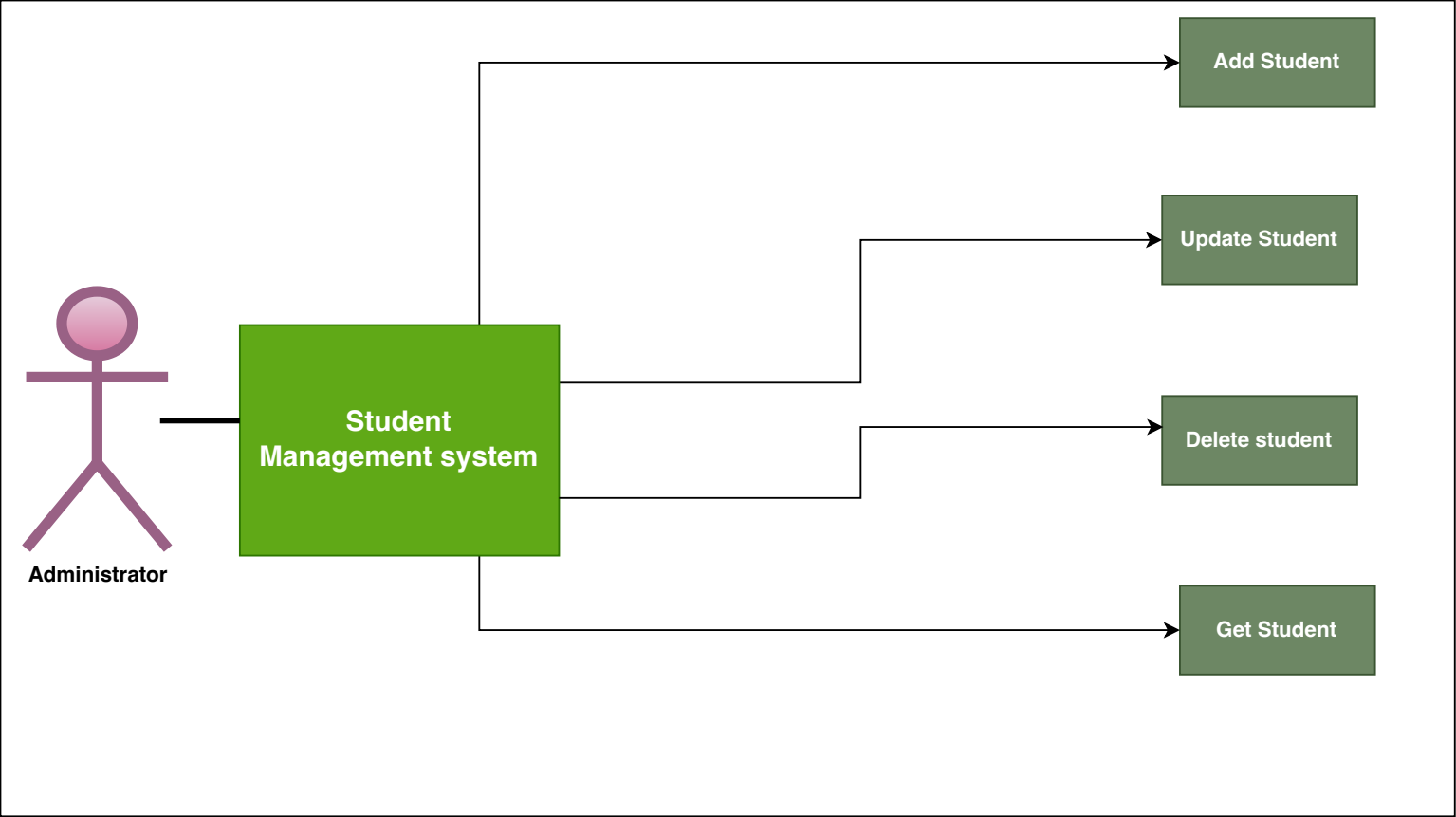


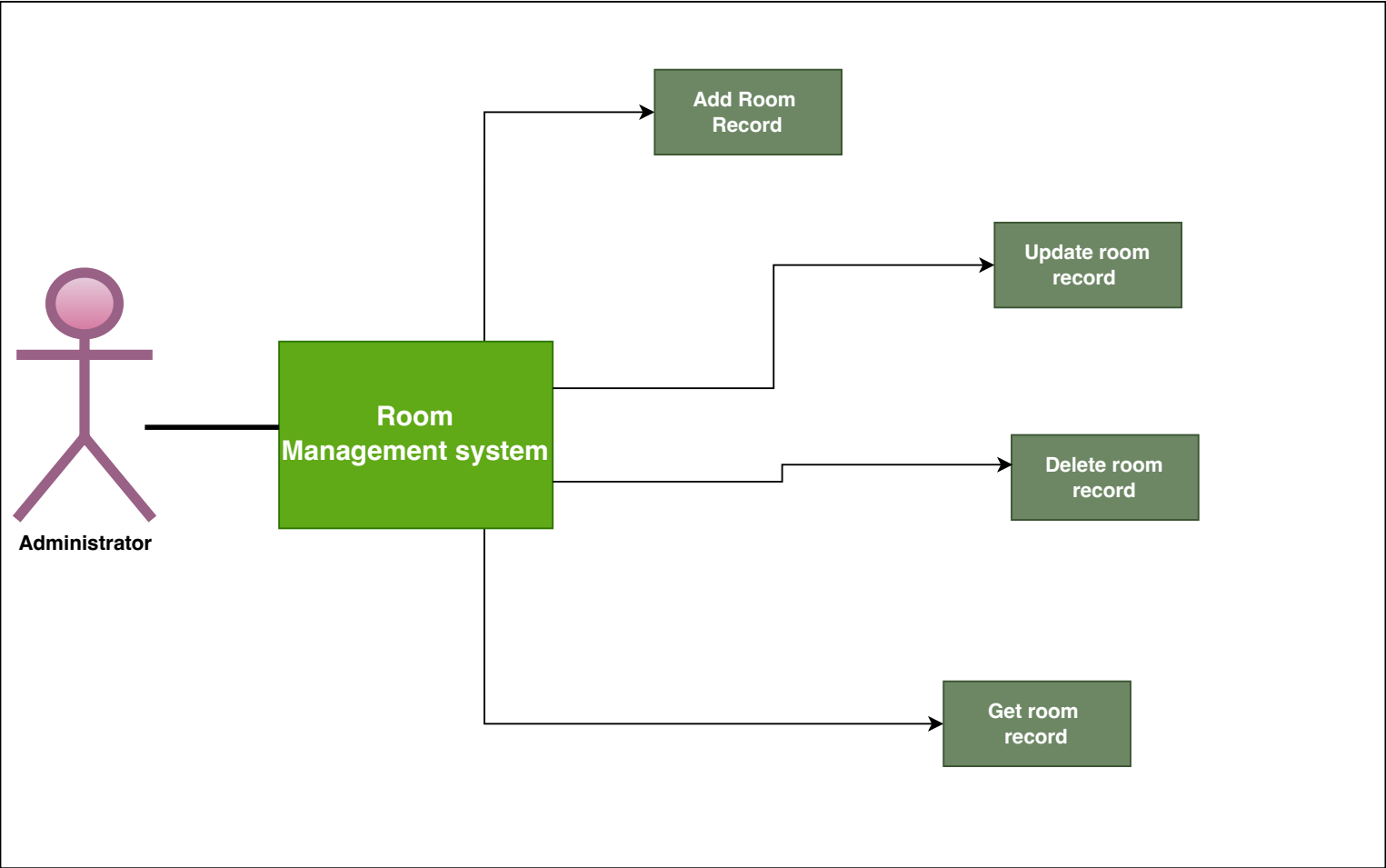
Requirements	
Functional Requirments	Non-Functional Requirments
<p><i>Student Management</i></p> <p>1) The system should allow administrators to get, add, update, and delete student records.</p> <p>2) The system should store details such as student ID, first name, contact information, and assigned room.</p>	<p><i>Usability</i></p> <p>1) The system should provide help documentation and tooltips for user assistance.</p> <p>2) The system should have an intuitive user interface that is easy to navigate for both administrators and students.</p>
<p><i>Room Management</i></p> <p>1) The system should allow administrators to get, add, update, and delete room records.</p> <p>2) Each room record should include the room number, capacity, and the number of available places.</p> <p>3) The system should track which students are assigned to which rooms.</p>	<p><i>Reliability and Availability</i></p> <p>1) The system should be available 24/7 with 99.9% uptime.</p> <p>2)The system should implement regular backups to prevent data loss.</p>
<p><i>Administrator Management</i></p> <p>1) The system should manage administrator records, including getting, adding, updating, and deleting administrators.</p> <p>2)Each administrator should have an ID, first name, last name, and contact information.</p>	<p><i>Scalability</i></p> <p>1)The system should be able to scale to accommodate more students, rooms, and blocks as the university grows.</p>
<p><i>Accommodation Request Management</i></p> <p>1)The system should allow students to submit accommodation requests.</p> <p>2)Each request should include a unique request ID, the student's ID, preferred room, and status (e.g., pending, approved, rejected).</p> <p>3)Administrators should be able to approve or reject accommodation requests.</p>	<p><i>Maintainability</i></p> <p>1)The system should be designed with modularity to facilitate easy updates and maintenance.</p> <p>2) The system should include comprehensive logging to assist in troubleshooting problems.</p>
<p><i>Search and Filter</i></p> <p>1)The system should allow administrators to search for students by name, ID, or room number.</p> <p>2)The system should allow administrators to filter rooms by capacity, and availability.</p>	<p><i>Compatibility</i></p> <p>1)The system should be compatible with modern web browsers (Chrome, Firefox, Safari, Edge).</p> <p>2)The system should be accessible from mobile devices.</p>
	<p><i>Security</i></p> <p>1)The system should authenticate users (administrators and students) before allowing access.</p> <p>2)The system should authorise actions based on user roles.</p> <p>3)Sensitive data such as student contact information should be encrypted in the database.</p>

Use Cases

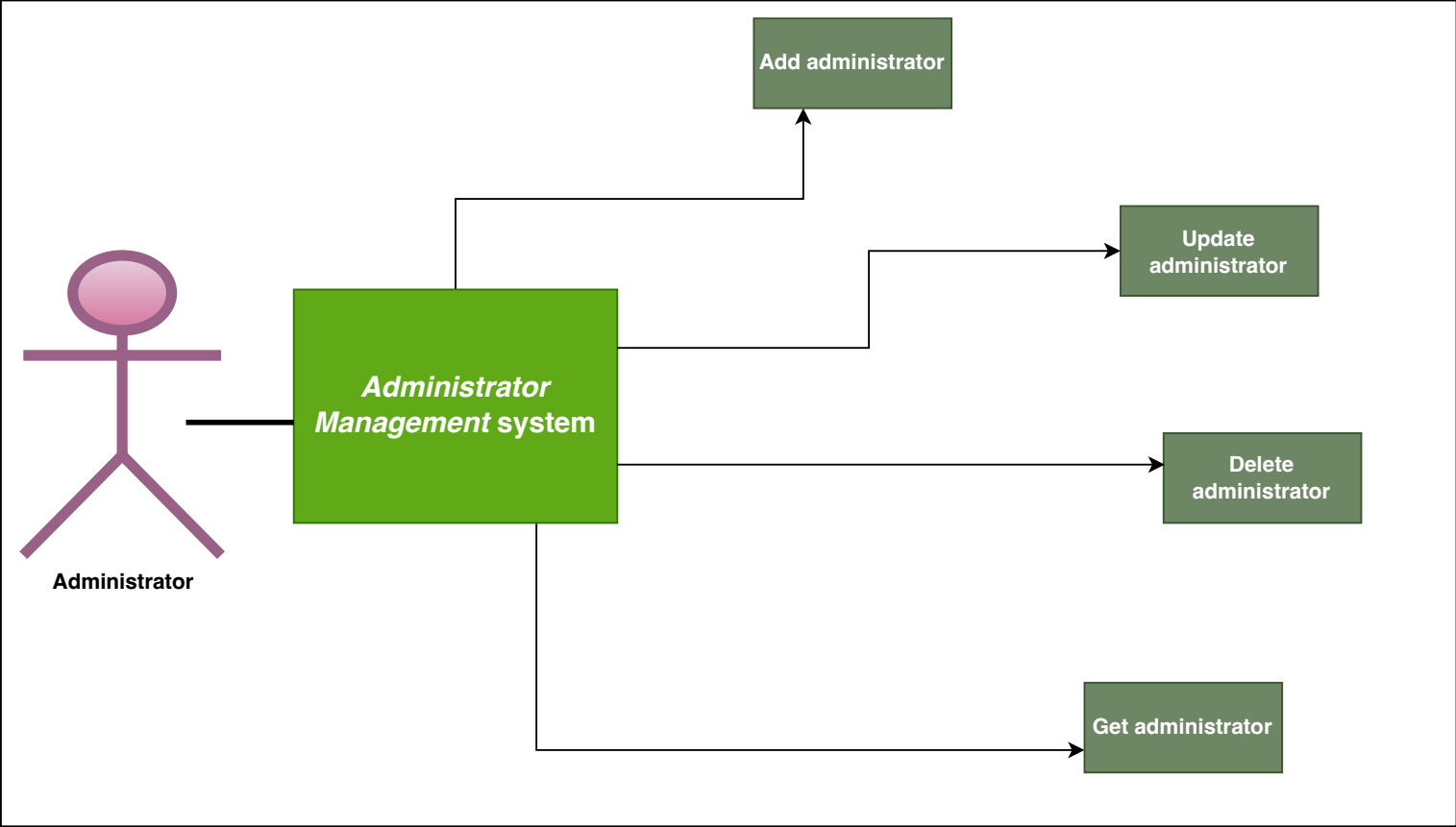
Student Management



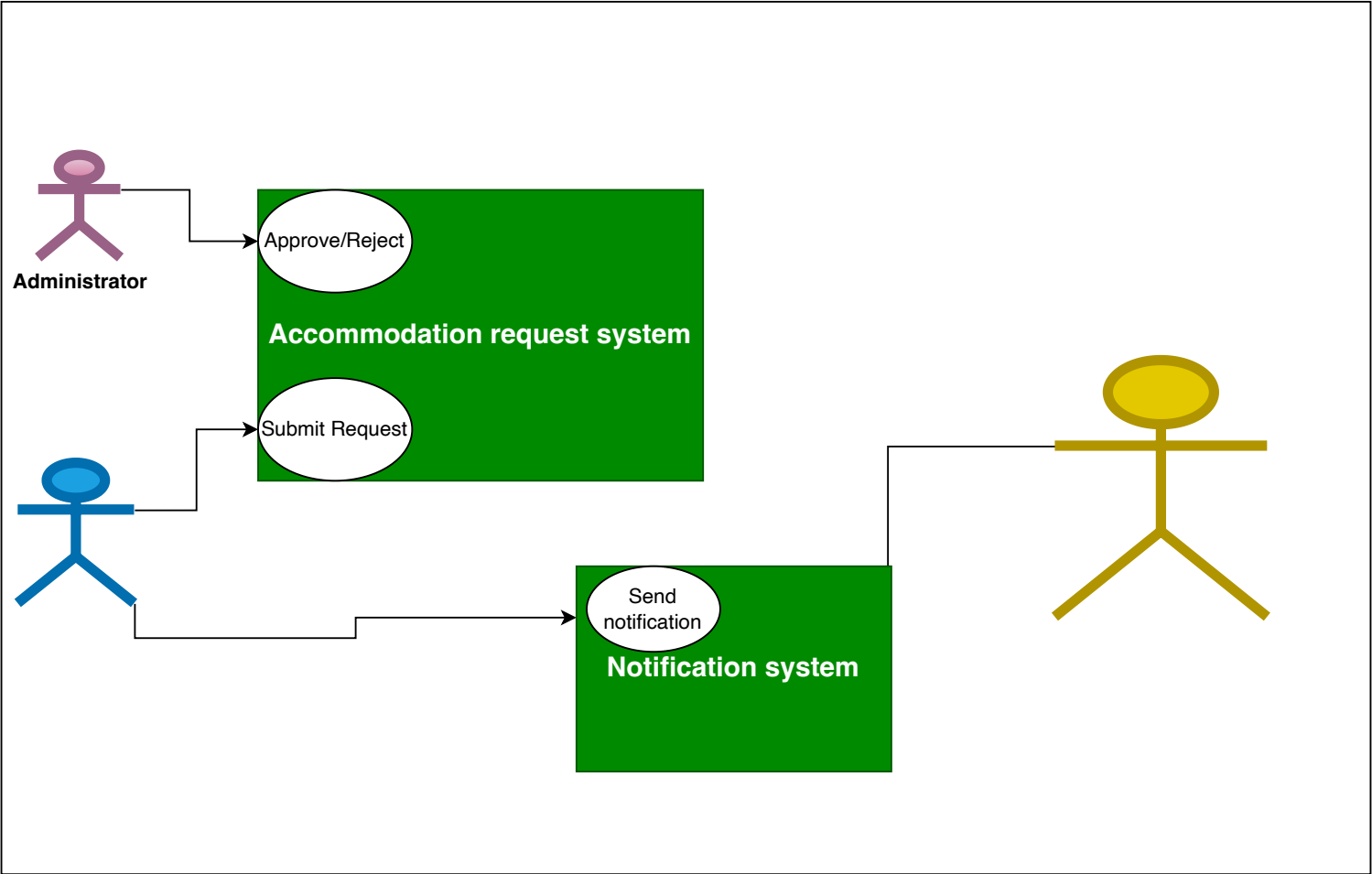
Room Management



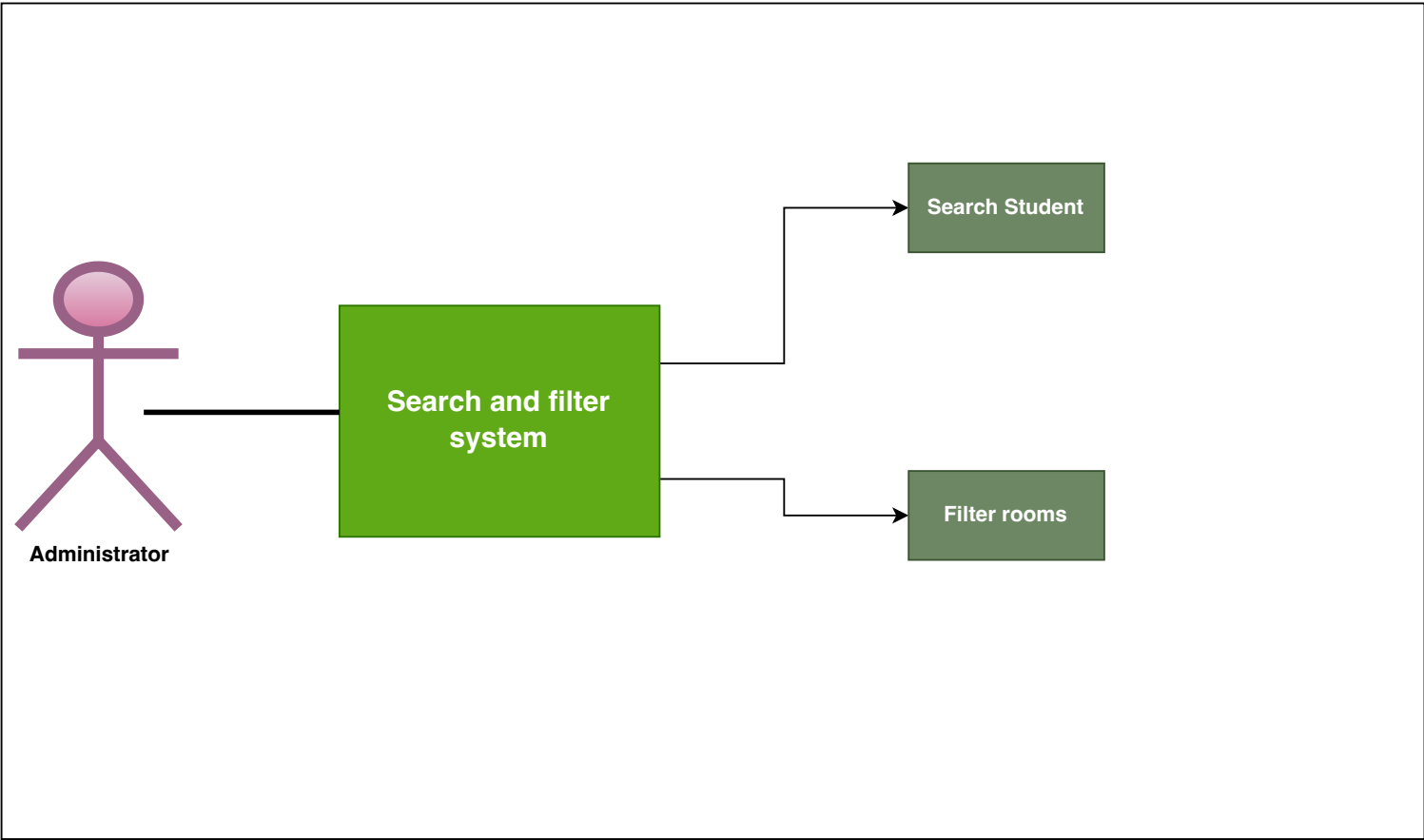
Administrator Management



Accommodation Request Management



Search and Filter



System diagram

