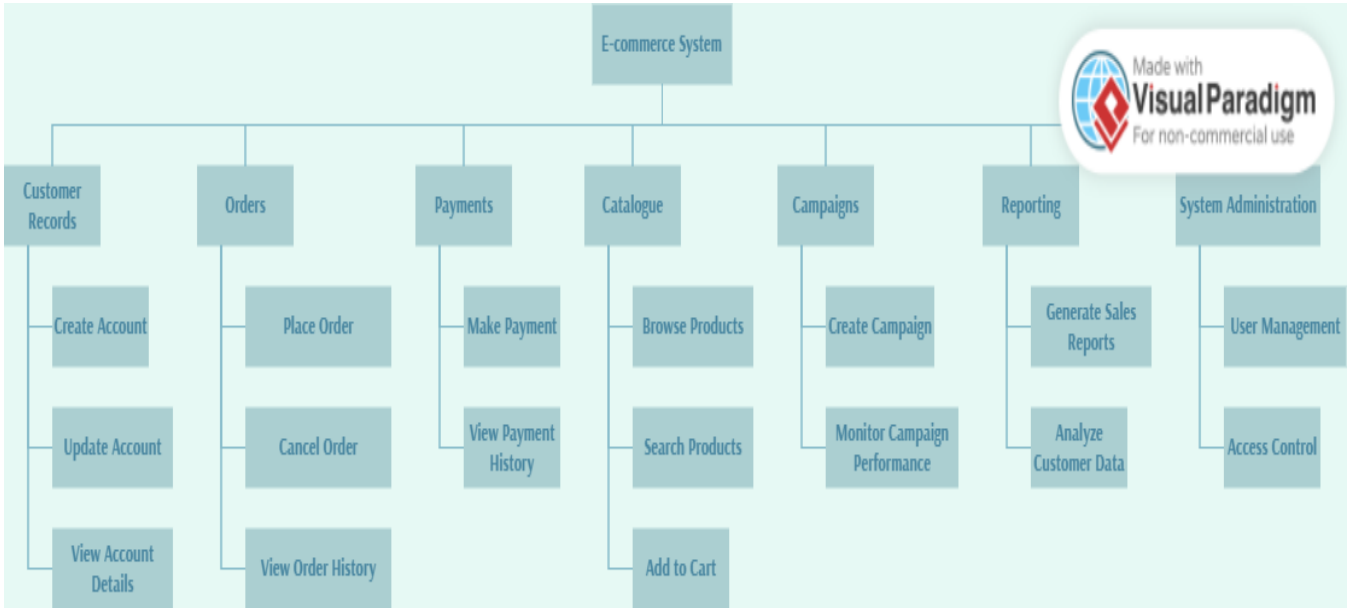
Scenario 1: Functional Decomposition Diagram:



Scenario 2:

Process to Gather Information for User Stories and Acceptance Criteria:

- Conduct Stakeholder Interviews: Gather input from university administrators, students, and faculty to understand their needs and pain points.
- Organize Workshops: Facilitate workshops to brainstorm and prioritize features and functionalities.
- User Story Mapping: Collaborate with stakeholders to map out user workflows and identify user stories for each feature.
- Define Acceptance Criteria: Work closely with stakeholders to define clear acceptance criteria for each user story, ensuring that the functionality meets user expectations.

Questions for RFP Requirement No. 1:

- What are the specific requirements and objectives for the enhancement of the university's e-student system?
- Who are the primary stakeholders involved in this project, and what are their roles and responsibilities?
- Are there any budgetary constraints or timeline considerations for this project?
- What are the current pain points or areas of improvement identified in the existing e-student system?
- Are there any technical constraints or compatibility requirements that need to be considered for the enhancements?

Scenario 3

Business Analyst's Role in Each SDLC Stage:

Planning: Gather and analyse business requirements, define project scope, objectives, and deliverables.

Analysis: Elicit, document, and prioritize functional and non-functional requirements, conduct stakeholder interviews, and create use cases or user stories.

Design: Collaborate with stakeholders and development teams to design system architecture, user interfaces, and data models based on gathered requirements.

Development: Work closely with developers to ensure that requirements are implemented correctly, conduct reviews and provide feedback as needed.

Testing: Develop test plans and test cases, participate in user acceptance testing (UAT), and verify that the system meets the specified requirements.

Deployment: Coordinate deployment activities; assist in user training and transition to production environment.

Maintenance: Monitor system performance, gather user feedback, and facilitate ongoing enhancements and updates based on evolving business needs.

Scenario 4:

Entity name:	**Customer**		
	Key (PK / FK)	**Data type**	**Data size**
Customer ID	**PK**	**Integer**	-2,147,483,648 to 2,147,483,647
Create date (when the 'Customer' record was created)		**Date**	
Status (e.g. Good, Blacklisted)		**char**	**0 to 255**
First Name		**char**	**0 to 255**
Last name		**char**	**0 to 255**
Email		**varchar**	0 to 65,535
Cell phone		**Integer**	-2,147,483,648 to 2,147,483,647
Date of birth		**Date**	
Address line 1		**varchar**	0 to 65,535.
Zip code		**Integer**	-2,147,483,648 to 2,147,483,647
Gender (e.g. Female, Unknown)		**Boolean**	**0 to 1**

Entity name:	**Order**		
	Key (PK / FK)	Data type	Data size
Order ID	PK	Integer	-2,147,483,648 to 2,147,483,647
Create date (when the cart record was created)		Date	
Status (e.g. Paid, Abandoned, Dispatched)		char	**0 to 255**
Order date(when the cart was checked out and paid)		char	**0 to 255**
Customer ID	FK	Integer	-2,147,483,648 to 2,147,483,647
Total pre-tax value		Double	2.225E-308 to 1.797E+308**.**
Total tax value		Double	2.225E-308 to 1.797E+308**.**
Total order value		Double	2.225E-308 to 1.797E+308**.**
Total quantity of products		Integer	-2,147,483,648 to 2,147,483,647