NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES

Software Design & Architecture Lab

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Lab 06

Task 01

Draw ECB pattern with help of class Analysis stereotypes.

Use case ID	UC001A
Use case name	Search Products
Actors	Customer
Description	Search for products based on some criteria.
Trigger	The customer wants to browse among products or the customer would like to search for certain products.
Precondition	Customer starts a web browser.
Postcondition	Search results meeting the criteria are displayed.
Normal flow	1. Customer visits application home page by entering URL.
	2. Customer clicks Search button.
	3. Search page is displayed by the system.
	4. Customer enters search criteria on search page.
	5. The system validates the criteria provided. either not found then system will display the hint with correct criteria on search page, or if found then search for catalog. (from existing data base).
	6. The system looks up the catalog to find the products that meet the criteria. If product found then Search results page is displayed with the products fulfilling the criteria.
	7. If catalog not found product then display not found product on search page.
Alternative	Refine Search Results
	The following steps are added:
	8. Customer refines search results by providing additional criteria.
	9. Steps 5–7 are re-executed.

Task 02

Draw ECB pattern with help of class Analysis stereotypes.

The online application process at Pakistan Online Visa can be completed in **3** Easy Steps. Before starting your application, please go through the instructions for each step below:

Step 1: Preliminary Assessment: Choose your visa

Step 2: Preparation

Please ensure that you are applying for the right visa as each visa has its own set of required documents. You must have the following on-hand before you begin your application:

- Complete set of supporting documents.
- Photograph up to 350KB captured as explained in the Photograph Tutorial.
- Valid Credit Card/Debit Card for online payment of your application fee.

Step 3: Online Application

When you are ready to apply, follow the steps outlined below:

- Applicant will enter the URL and see the home page of the website.
- Click on the Apply Now button and system will show create account page for the Pakistan Online Visa System.
- System will verify the user details if details are valid then show the Pakistan Online Visa System with logged-in, if details are not valid then redirect to current page again.
- After Login to the Pakistan Online Visa System Prospective students who wish to pursue higher education in Pakistan can apply for a 2-year Student Visa. They can apply for two types of visas online: **First Time (New)**: You can apply for a new visa if you do not possess a valid Pakistan visa. **Extension()**: You can apply for a visa extension if you possess a valid Pakistan visa and you are residing in Pakistan. After clicking any of two system will show another interface to upload the document Applicant must have to upload all the documents. System will verify the documents and ask for voucher to submit as Pay Fee through a Credit Card/Debit Card.
- Submit your Application, "you have successfully submit the application thankyou"

Task 03

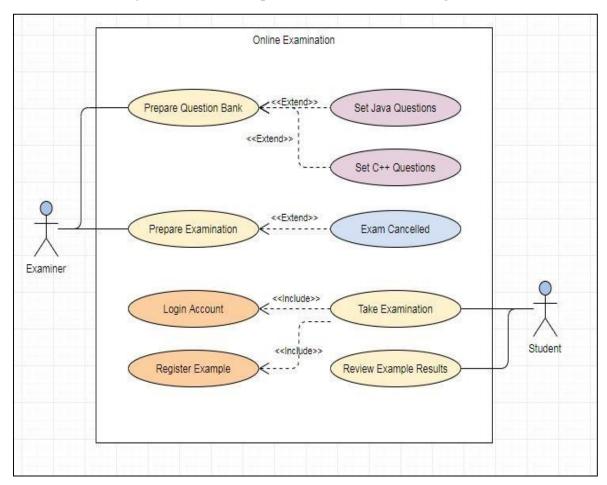
Online Examination System is a technology-driven way to simplify examination activities like defining exam patterns with question banks, defining exam timer, objective/ subjective question sections, conducting exams using the computer or mobile devices in a paperless manner. Online Examination System is a cost-effective, scalable way to convert traditional pen and paper-based exams to online and paperless mode. Candidates can appear for the exam using any desktop, laptop, or mobile device with a browser. Exam results can be generated instantly for the objective type of questions.

Write the fully dressed use case descriptions of each use case including:

- 1. use case id
- 2. use case name
- 3. actor
- 4. Description
- 5. Precondition
- 6. Postcondition

- 7. Normal Flow
- 8. Alternative flows
- 9. Exception
- 10. Include
- 11. Issue

After use case description create Robustness diagram.



Task 04

Create a Robustness diagram

User Id	MOVUC12
Use Case Name	Movie Search
Actor	User
Description	Search for Movie from Netflix
Precondition	Applicant start a web browsing
Postconditio n	Searched result meet with taste
Normal Flow	1. user visit online movies websites scholarship websites
	2. User Select Netflix website for movies
	3. User need to be login with their Gmail account.
	4. System will ask for trial version or premium
	5. System will send confirmation email for account activation
	6. System will show the Multiple Listed movies
	7. User select Animated movies for "later watch list"
	8. For current user select one horror movie
	 System will shoe updates for premium version for more new latest movies
Alternative flows	N/A
Exception	<i>N/A</i>
Include	None
Issue	None