

Name : Lakhan Kumawat.

Roll No : 1906055.

CS4460

Assignment -01

To make Career Guidance Portal using Use Case Diagram and Use Case Text

Introduction

Use Case Diagram and Text

- Use case diagrams consists of actors, use cases and their relationships. The diagram is used to model the system/subsystem of an application. A single use case diagram captures a particular functionality of a system
- Hence to model the entire system, a number of use case diagrams are used.

Purpose of Use Case Diagrams

- The use case diagrams can be used as a reference model by developers to move from 'what to build' to 'how to build'. The use cases serve as a model for white-box testing to decide whether a required functionality has been achieved or not.
- A scenario is a sequence of steps describing an interaction between user and a system. A user case is a collection of successful and unsuccessful scenarios. An actor initiates or thinnens the execution of use cases.

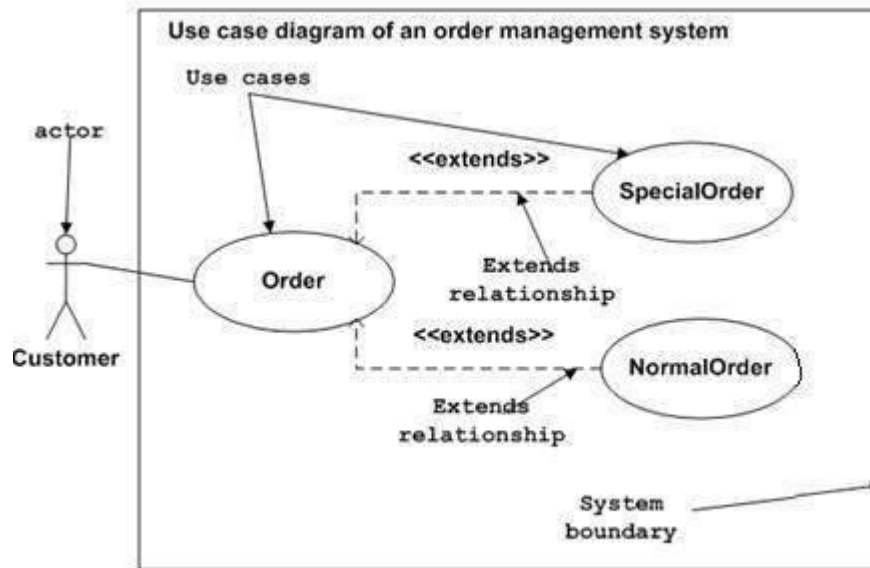
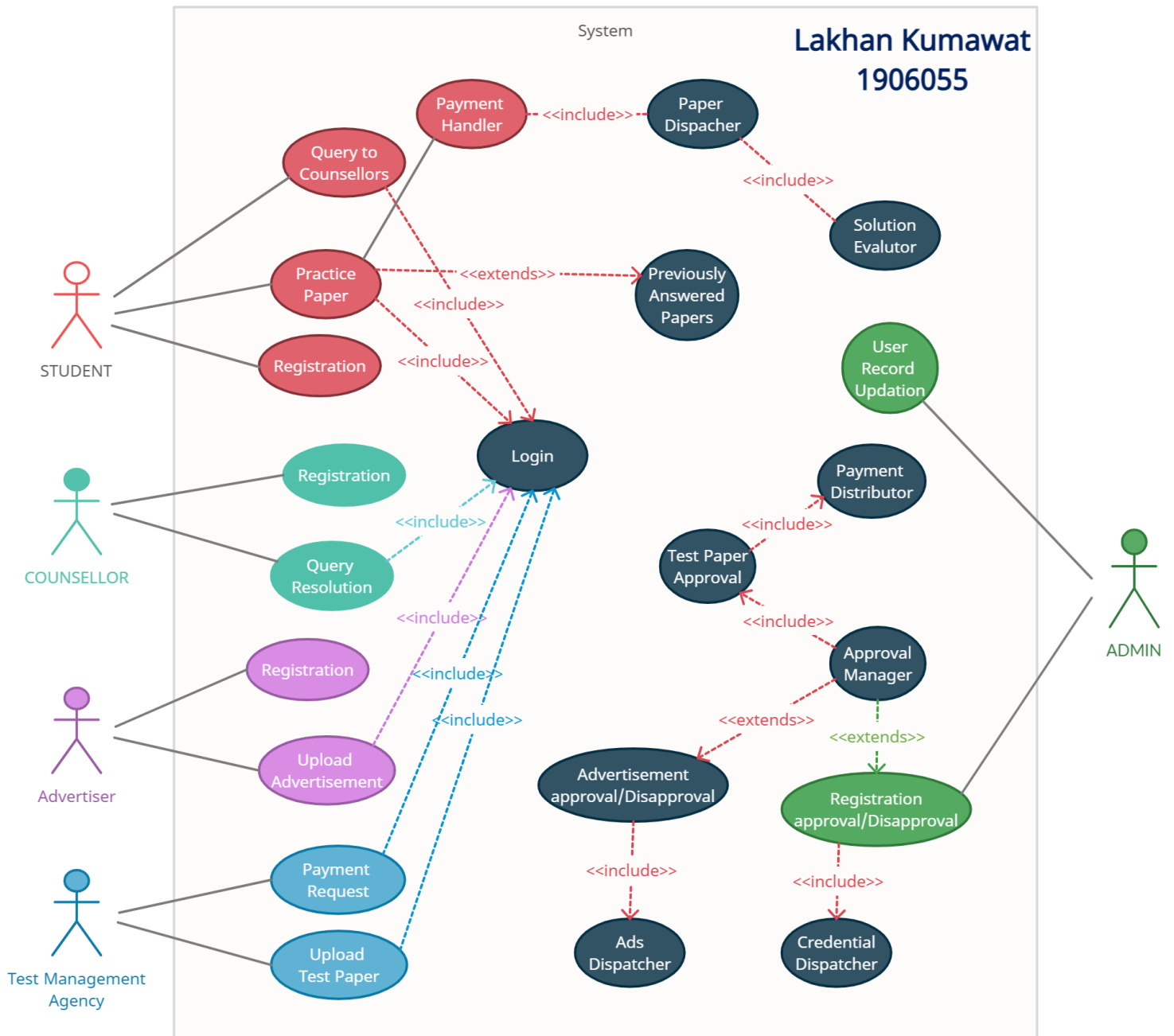


Figure: Sample Use Case diagram

- Include, extend and use case generalization are three relationships in use case modelling.
- Use cases can be extensively used for testing. Testing involves both validation and verification
- Use cases describe the functional requirements of the system and so they can be used to prepare the test cases.

Lakhan Kumawat - 1906055

USE CASE DIAGRAM



Tools and Technologies used by me

Creately.com – Online UML model maker.

Adobe Scan – To scan Pages.

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Actors:-

Student

Counsellor

Advertiser

Test Management Agency (TMA)

Administrator.

A registered student indicates that he wants to answer test paper or wants to ask questions to the counsellor.

A registered counsellor indicates that he wants to give solution to the student's query.

An advertiser indicates that he wants to publish ads to the site.

The TMA's indicates that they want to upload test papers and get payment.

PreConditions:-

Every type of users have to register/login first.

Post Conditions:-

The student have given the test and the results will be displayed to their system.

- The student have submitted their query to the counsellor and counsellor resolved their query.
- The advertiser uploaded their advertisement to the website and submitted their payment.
- The PTMA's uploaded their test papers and got the payment for the same.

Normal Flow:

Student:

1. A new student register himself with proper credentials.
2. After login, the student forwarded to the homepage of the portal where he got option of answering test paper and query to Counsellor.
3. If the student choose to practice test, then they can be forwarded to paper catalogue.
4. The student chooses the paper as per their requirement.
5. Then they have to submit the payment.
6. After successful payment, they got test practice link to their mail.
7. After test completion, they will get result on the same page.

Alternate Fkds.

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Extensions or...

3b. If they choose to ask questions to the counsellors they are forwarded to the counsellor contact page.

4b. The student will submit their query.

5b. The counsellor will give solution to the query.

⑥ Counsellor:

1. After login, the counsellor will get option of query resolution.
2. In that, they will select a query of student and reply them through mail.
3. Then the user will exit the system.

⑥ Advertiser:

1. After login, advertiser can get to his/her dashboard/profile and can upload and manage ads.
2. After that, they can choose one of the possible schemes.
3. They have to submit their ads for approval.
4. After approval from admin, they are forwarded to payment page.
5. On successful payment, their ads will be displayed at web portal.

⑥ Test Management Agency:-

1. After login, they choose to upload test papers.
2. They will upload their papers and wait for admin approval.
3. After approval, they will get their payment.
4. The agency will exit the system.

⑥ Alternate Flows :-

- payment Error and payment Auth-delay for student:-

1. After paper selection, student is forwarded to payment page.
2. If the student failed to provide correct payment details or failed to submit payment within given time limit.
3. They get get revert back to paper selection page.

⑥ Registration Handler for Counsellor:-

1. Counsellor register themselves by providing qualification details
2. If admin think that the Counsellor have appropriate details, he generate Counsellor's username and password and set them through mail.
3. If admin think they are not suitable for the job, they revert back to them by mail with proper reason
4. Similar to registration handler, advertisement and test paper updation handler is done in same way

⑥ Payment request for TMA :-

1. If the payment is not received even after successful paper submission.
2. They can request again from 'payment request' option.
3. The issue will be resolved.