Object-Oriented Analysis and Design with Java Laboratory UE19CS353

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Assignment: 3

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Identify the use cases and actors and their relationships for Passport Automation System and depict it with a use case diagram:

Passport Automation System (PAS): To simplify the process of applying for a passport, a software system must be created. Initially, the applicant will login to the passport automation system and submit his details. These details are stored in the database and the verification process is done by the passport administrator, the regional administrator, and the police, then the passport is issued to the applicant.

- Passport Automation System is used in the effective dispatch of passport to all of the applicants. This system adopts a comprehensive approach to minimize the manual work and schedule resources, time in a cogent manner.
- 2) The core of the system is to get the online registration form (with details such as name, address, etc.) filled by the applicant whose testament is verified for its genuineness by the Passport Automation System with respect to the already existing information in the database.
- 3) This forms the first and foremost step in the processing of passport application. After the first round of verification is done by the system, the information is in turn forwarded to the regional administrator's (Ministry of External Affairs) office.
- 4) The applicant can optionally seek ECNR status enabled by providing Graduation Certificates and Employment details.
- 5) The application is then processed manually based on the report given by the system, and any forfeiting identified can make the applicant liable to penalty as per the law.
- 6) The system forwards the necessary details to the police for its separate verification whose report is then presented to the administrator. After all the necessary criteria have been met, the original information is added to the database and the passport is sent to the applicant.

Actors:

- 1. Database
- 2. Applicant
- 3. Passport Administrator
- 4. Regional Administrator
- 5. Police

Use Case Specification:

1. Use case name: Registration

Summary: Accepts details from the applicant using a form

Description: Name, Address, Age, Date of birth

Pre-condition: Fetch form

Post-condition: Verify the genuineness of the data using the existing database

2. Use case name: Login to PAS

Summary: Allows the user to login into the account

Description: User ID and password

Pre-condition: Access the database consisting of existing account details

Exception: Invalid account details

3. Use case name: Verification by Passport admin

Summary: Checks whether the details entered by the user are correct

Pre-condition: Connect to the database

Exception: Details entered are incorrect

4. Use case name: Seek ECNR Status

Summary: Allows the user to check if they are eligible for passport in the ECNR category Description: Requires documents like 10th and 12th grade cards, birth certificate, identity certificate, employment details, etc.

5. Use case name: Verification by Police

Summary: Additional check is performed on the application submitted by the user

Pre-condition: Must be manually verified before

Post-condition: Send report to passport administrator, update information in the database

Exception: Invalid details may lead to penalties

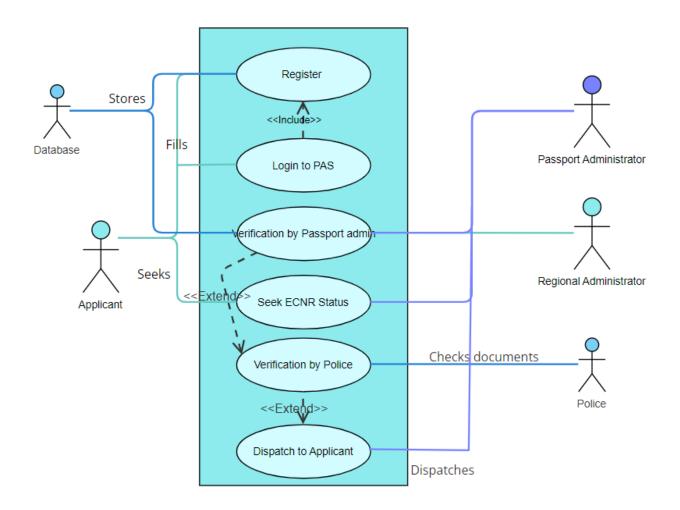
6. Use case name: Dispatch to Applicant

Summary: Dispatches the passport to the applicant if all the verifications are complete

without any problems

Description: Address, Name of recipient

UML Diagram:



Tool used: https://online.visual-paradigm.com/diagrams/solutions/free-uml-drawing-software/