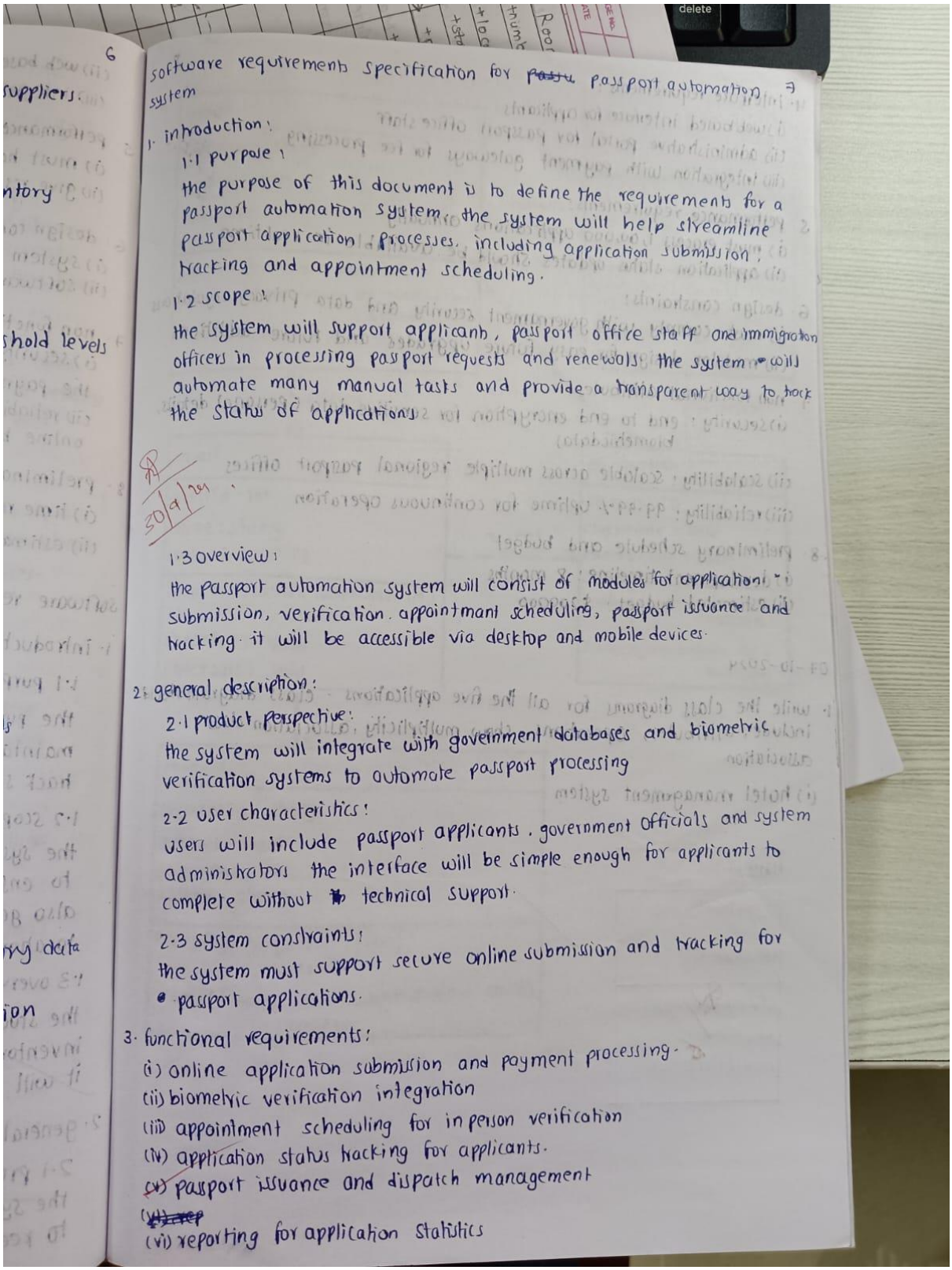
5. Passport automation system

Srs document:



Software requirements specification for passport automation system

1. introduction:

1.1 purpose:

the purpose of this document is to define the requirements for a passport automation system. the system will help streamline passport application processes, including application submission, tracking and appointment scheduling.

1.2 scope:

the system will support applicants, passport office staff and immigration officers in processing passport requests and renewals. the system will automate many manual tasks and provide a transparent way to track the status of applications.

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1.3 overview:

the passport automation system will consist of modules for application submission, verification, appointment scheduling, passport issuance and tracking. it will be accessible via desktop and mobile devices.

2. general description:

2.1 product perspective:

the system will integrate with government databases and biometric verification systems to automate passport processing

2.2 user characteristics:

users will include passport applicants, government officials and system administrators the interface will be simple enough for applicants to complete without technical support.

2.3 system constraints:

the system must support secure online submission and tracking for passport applications.

3. functional requirements:

(i) online application submission and payment processing.
(ii) biometric verification integration
(iii) appointment scheduling for in person verification
(iv) application status tracking for applicants.
(v) passport issuance and dispatch management
(vi) reporting for application statistics

4. interface requirements :
   (i) web based interface for applicants
   (ii) administrative portal for passport office staff
   (iii) integration with payment gateways for fee processing

5. performance requirements:
   (i) must process 1,00,000 applications annually
   (ii) application status updates should be available in real time

6. design constraints:
   (i) must comply with government security and data privacy regulations
   (ii) modular design for easy future upgrades and future additions

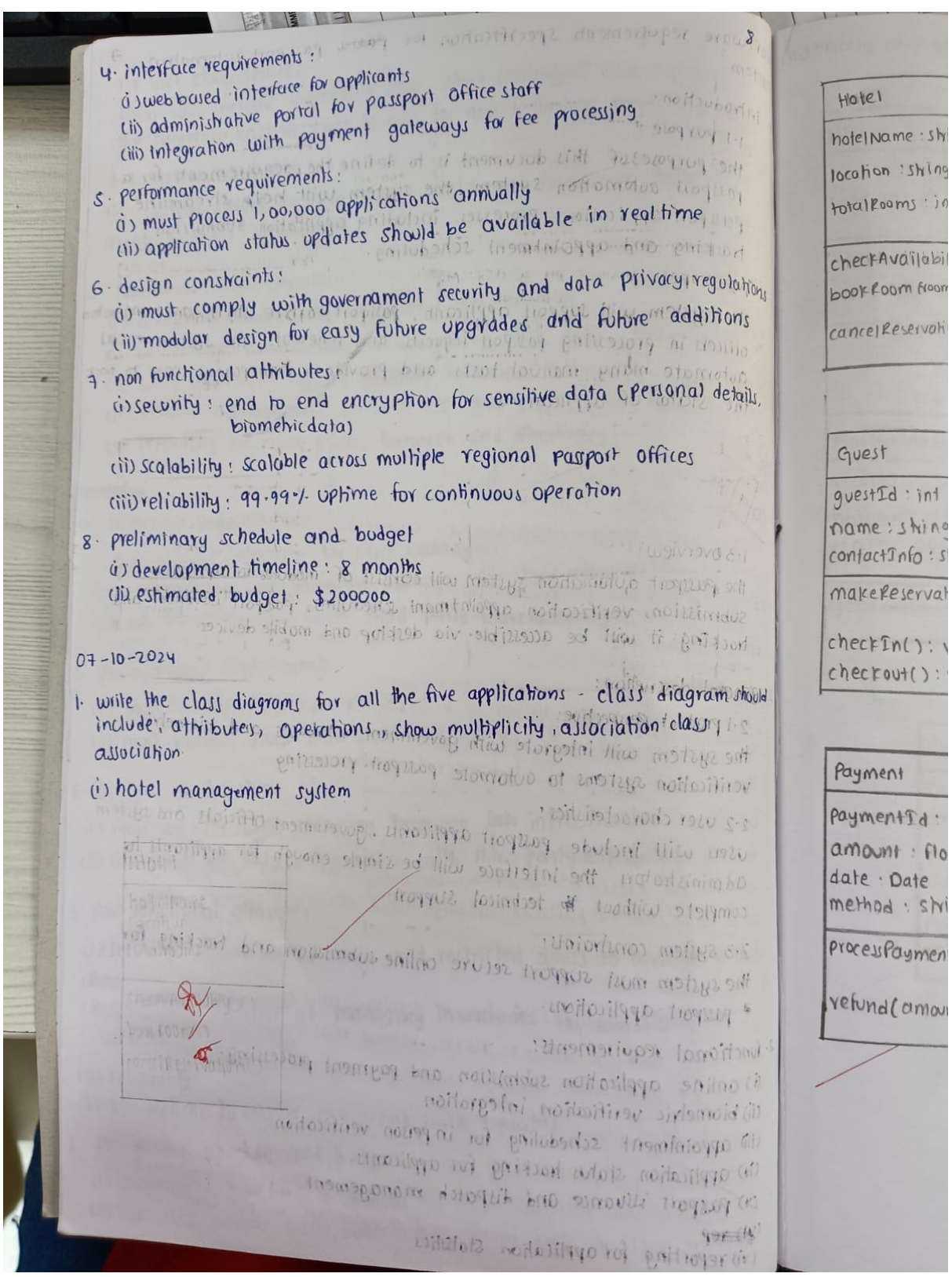
7. non functional attributes:
   (i) security : end to end encryption for sensitive data (personal details, biometric data)
   (ii) scalability : scalable across multiple regional passport offices
   (iii) reliability : 99.99% uptime for continuous operation

8. preliminary schedule and budget
   (i) development timeline : 8 months
   (ii) estimated budget : $200000

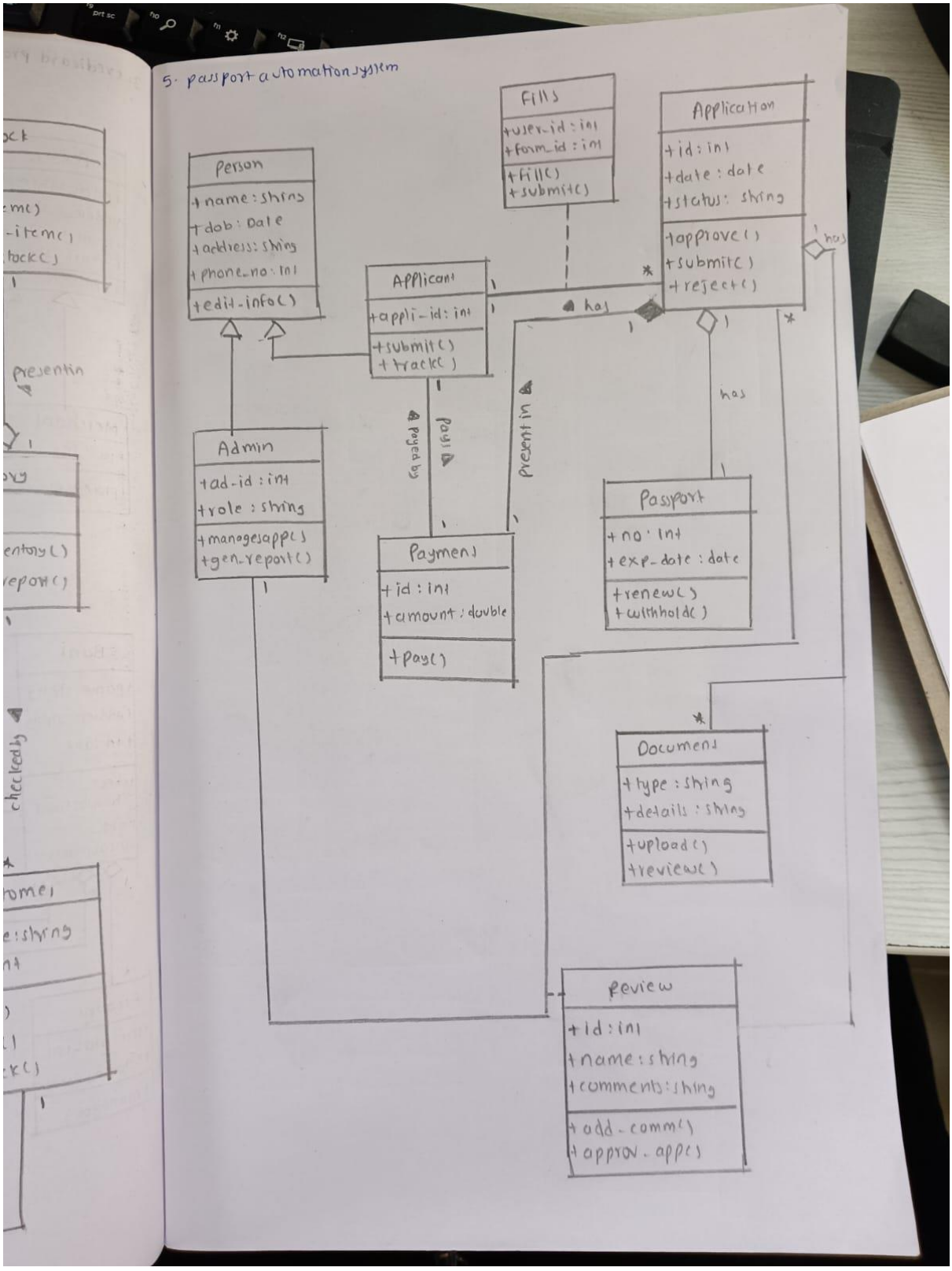
07-10-2024

1. write the class diagrams for all the five applications - class diagram should include, attributes, operations, show multiplicity, association class, association

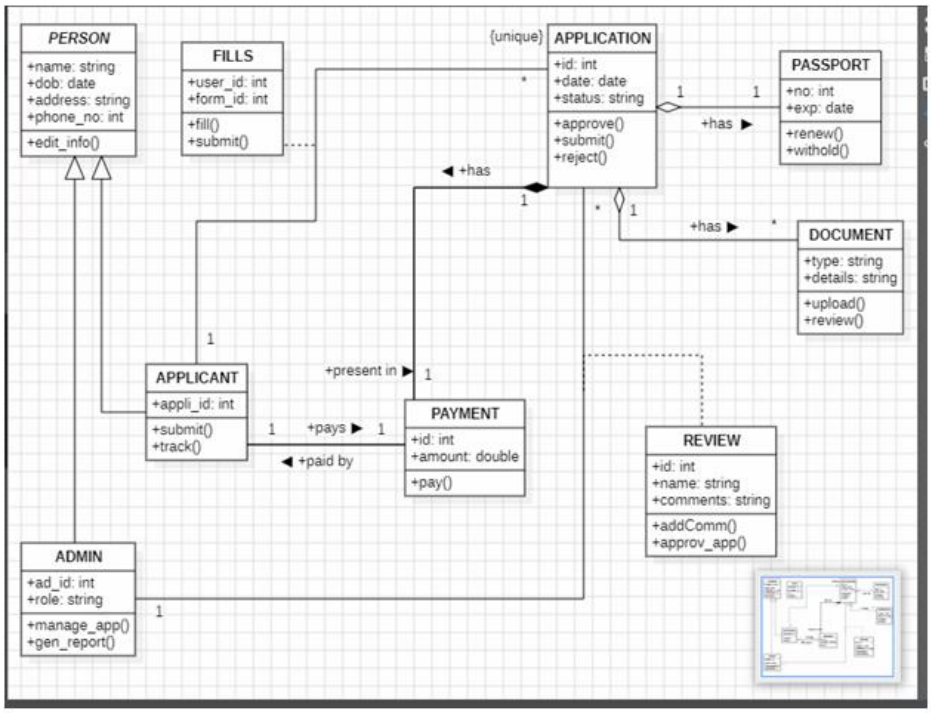
   (i) hotel management system



Class diagram:



Class diagram star uml:


PERSON
+name: string
+dob: date
+address: string
+phone_no: int
+edit_info()
FILLS
+user_id: int
+form_id: int
+fill()
+submit()
{unique}
APPLICATION
+id: int
+date: date
+status: string
+approve()
+submit()
+reject()
PASSPORT
+no: int
+exp: date
+renew()
+withold()
+has
+has
DOCUMENT
+type: string
+details: string
+upload()
+review()
APPLICANT
+appli_id: int
+submit()
+track()
+present in
PAYMENT
+id: int
+amount: double
+pay()
+pays
+paid by
REVIEW
+id: int
+name: string
+comments: string
+addComm()
+approv_app()
ADMIN
+ad_id: int
+role: string
+manage_app()
+gen_report()