Postwiere Engineering Assignment

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Section: 1

Software Engineering

Q.1) Consider the problem of library management system and design the following:

→ Use Case Diagram Invalid username or «exclude» Bassword Authenticate (Add second Search & update Request new database book «exclude» Reserves a delete work Invalid 1D book lituanian necoul Renew excludess update book Invalid necond Renewa ckinclude>> Update the Usen feedback) record 10 « includes >> filling up feedback Prepare library database Student Fill up registeration dilmany Cret database li beary card

"i) use cases use cases diagram referred as Behaviour model out diagram at simply describe and display the relation out intraction has the out intraction be the user and customer and purovideus of application our the system. Here, we will understand the designing use case diagram four the library management system. Some Scenarious of the system are ous follows -I) Usen who registers himself as a new initially in regarded as staff our student four the library System · four the usen to get negsistered as a new user negativation fourms are available that is needed to fulfilled day the unex. · After jugistration, a library card, an SD is ausigned to cardholder our uner a) After getting the library could, a new book is requirement 3) After getting the viewest, the disc desired book in viewed by the west that mean and no other were by the viewest for the book. 4) Now, the west can vienew a book that means the west can get a new due date four the desired book if the west has venewed them. 5) If the user Somehow forget to vieturn the book before the due date, then the user has to pay fine on if the user forgets to vienew the book till the due date then the book will be overdue and used have to pay fine.

6) User can fill the feedback form available if they want to.

The librarian has a key unde in the System, librarian add and the necound in the library data base about each student are used every time returning the book on issuing the book, on paying fine.

Shibrarian also deletes the record of a particular student of the students remes the college out passed out from the college of the book no longer exists in the library then the record of the particular book is also decided.

9) Updating daterbase is the important vole of

iii) Design the DFD (conkrt level and level 1)

Data flow diagram:

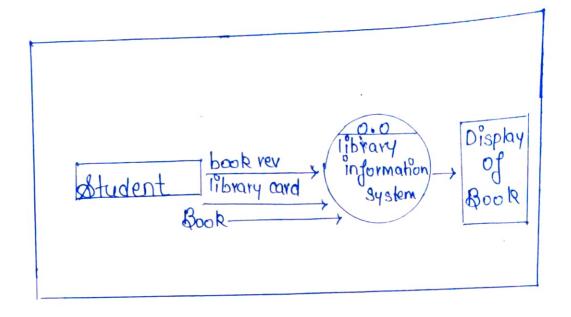
Depicts the flow of information and the transformotion applied when a data moves in and out
from a system the overall system is represented and described using input, processing and
output in the DFD. The input can be-

· Book request when a student request

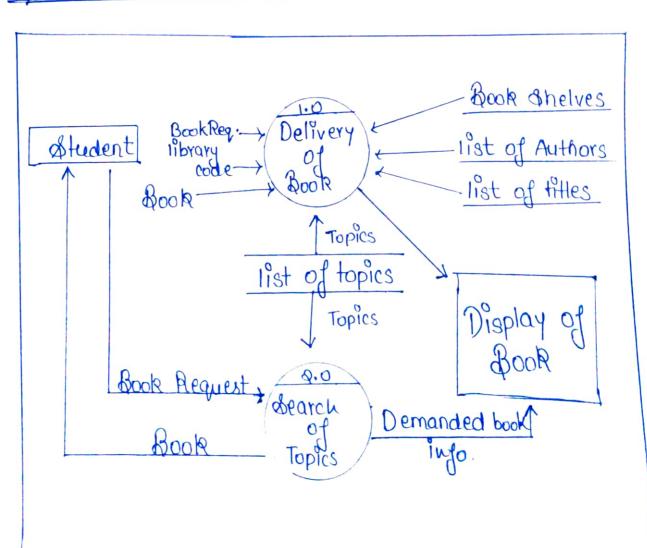
· library could when the student has to show out submit wisher identity as a proof.

Q.Q) consider the wollen of Railway versuation system and design the following. 1) Use Case diagram: Book Tickets, Manage Users and Juli application Search Vacent deats Buper Manage booking Admin collect payments Agent Manage customer login and logout fulom sys. update my profile change account passmore Book tickets Manage payment Manage Ticket Make payments)|custom \$ystem user Manage Train Schedule) (bearch train

1> level ODFD (context level):



2) Level 1 DFD:



This use case cliagram in a guaphic depiction of the interactions caming the elements of Railway Reservation system it represents the methodolog used in system analysis to identify, clarify and organize system requirements of vialuays recuration system.

The Relationship b/w and among the actions and the curey case of Railway Reservation System:

Use cases of super admin entity are to manage trains manage tickets, manage booking, manage customer, manage payment, manage train floute, manage train schedule, manage were and full railway revewedion system operations.

· System user entity:

ii } Use Case:

Use cases of system user are manage train, manage ticket, manage booking, manage customen, manage payment, etc.

· Ticket agent entity:
Use cases of ticket agent are Book tickets, Search vacant
seats, collect Payment.

· Customen entity:

Use cases of customer entity are search Trains, Book

tickets, Make Payments.