

Assignment 5
Software Engineering CS328
Architecture, View and View Points

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1 Architectural Style

1.1 Service Oriented Architecture (SoA)

The architectural style that is going follow for this project is Service Oriented Architecture (*SoA*). The project will be divided into multiple services. The reason to use this architectural style is that by creating multiple services we will be able to connect the services and will be able to communicate between them properly.

2 Views and View Points

Following are the *Views & View Points* of the **Banking Case Study**

VIEWS	VIEW PIONTS
Account Opening	Correct Information, Database Updating
Cash With-drawl	Enough Balance in Account, Account State (Check it is blocked or open), Update values in Database
Cash Deposit	Account Validation and State, Amount Validation, Database Updating
Funds Transfer	Account Validation of both sender & Receiver, Amount Checking in Sender's account, Updating Database
Bill Payment	Validation of Billing Company, Account Balance Check, Database Updating
Mobile TopUP	Validation of Carrier's company, Account Balance Check, Database Updating

2.1 Elaboration

Following is the explanation of the *Views and View Pionts* discussed above:

2.1.1 Account Opening

All the personal information of the customer like CNIC, DoB etc, will be check, and verified upon successful verification the customer information will be stored with customer's information

2.1.2 Cash Withdrawl

When the customer wanted to withdrawl money from his account (can be through cheque or through ATM) his account will be checked whether it is blocked or opened. The amount customer wanted to withdraw is available in his account or not. In case of low balance customer will be alert that his account is having not enough balance. In case of enough balance the requested amount will be withdrawl. After that the database is updated storing the updated value of the customer.

2.1.3 Cash Deposit

In case of cash deposition the account information is validated in case of successful validation the amount is deposited in the account mentioned. The database is updated accordingly.

2.1.4 Funds Transfer

In case of funds transfer the account of both sender & receiver is verified upon successful verification and validation. The sender's account is checked whether the requested is there or not. The amount is then send to the receiver's account accordingly. The database is updated with changes made.

2.1.5 Bill Payment

The billing company is verified. The amount to pay is checked whether it is present in the account. In case of failure customer is alerted and in case of success the bill is paid. The account is updated with changes made.