# Simulation Operations of Central Depository Bangladesh Limited (CDBL)

## TANMOY BHOWMICK ID-1921993 Section-2

1. **Welcome page**

* Show the notices from the CDBL
* Maintain a notice board of recent notices posted by the manager class employee
* People can download the notice in .txt by clicking download button
* Let’s user login by their designated position if sign in button pressed
* If user pressed login button, then take them to login page
* Select employee type username and password
* If all three matches with the data, then log user in and open default screen for the user.
* If user press the home button, they can back to the home page again
* If user already login, then the login button shows logout
* Take the user to an account opening page if sign up button pressed
* If user pressed the signup button take them to the sign-up page
* Then take necessary details of the user for applying BO account
* Show Job circulation and candidate can drop their CV
* In the home page there is a section or button, which is called job applications or career in the CDBL
* If user pressed that button, a new window would open where they can see all the vacancies available in CDBL if there is no vacancies it will show no vacancies available now
* If the user taps in a job vacancy, a new page will load and there they will ask for CV, and they can drop PDF file

1. **Management Team**

* Can post notice on the welcome page
* Manager will provide valid email and password and procced to login.
* If login successful, then load home scene. Else show appropriate message.
* Select Notice Modifier button.
* User can select the type of notice from the drop box
* Then they can write the description of the notice
* Check and approve BO and company representative accounts and send them to IT team for account opening
* Manager will provide valid email and password and procced to login.
* If login successful, then load home scene. Else show appropriate message.
* Select “User” button.
* Select “BO account” button under the “User” button.
* Then check the form and details of the BO account holder if everything is fine
* Select “accept” button to send the approval notice to the IT team for opening a BO account
* Can suspend any BO and company representative account if required
* Manager will provide valid email and password and procced to login.
* If login successful, then load home scene. Else show appropriate message.
* Select User button.
* Select Restrict button under the User button.
* Provide BO or company representative account
* Select type of user (CR or BO).
* Provide restriction information.
* Check CVS and can give appointment to new employee for interview
* After providing Job circular in CDBL notice board, candidates will apply.
* Manager will provide valid email and password and procced to login.
* If login successful, then load home scene. Else show appropriate message.
* Select “Recruit & Hire” option.
* Select “Hire employee” button under the “Recruit & Hire” button.
* Then all the applicants CVs will be visible and for each cv there is a unique ID and the user can download them and review them
* If user want to give appointment, they can click approve button then the applicants will receive an appointment mail

1. **Seller/ Buyer (Stockholder)**

* Have to submit a form for opening BO account
* If user pressed signup button, then the signup page will load
* Then it will ask for personal details like full name, email address, phone number, father’s name, occupation, gender.
* If all the fields are fulfilled correctly and the user pressed next button, then it will take the user to the next page (if any of the fields didn’t fill up correctly then it will show warning)
* Then the user will ask for address details, like it will ask house number, road number, thana, city, country.
* If user fill up all the fields correctly then the form will send after clicking the submit button to the manager class employee
* If the from submitted correctly then the page will show that form is received, and it is under observation
* Have to do KYC before start trading (Link NID and TIN to the BO account)
* If the manager class employee approved the account and after that IT team create a account for the BO account holder and the when user login for the first time it will ask for a KYC from the user.
* After login, it will take the user to the home page and in the notification section on the home page it will show need KYC before trading.
* If user click the KYC button, then it will take them into the KYC fill page.
* Where user asked for some financial details, like TIN number, Bank account number, NID number, Tax token number.
* If the user fill all the fields and click next button, then it will take the user into the next page if not it will show waring.
* In the next page the user asked for some verification:

User needs to upload their TIN certificate, NID, Tax token as JPGE.

* If all paper attached correctly then it will show your verification is done,” now you can start trading”.
* Can buy and sell existing stocks and buy new stocks
* In home page user have button name trade, if user click that button, it will take user to a new window named stock market where they can see all the listed stocks (if market is open or they will show warning that the market will open at 10 am)
* In the stock market page user have two sections, in one section use can see all his holding stocks and in other section user have all the listed stocks of the market.
* In the holding stocks section user have the current selling price and the buying price of the stocks and user also have sell button, if he wants to sell the holding stock, he can select the sell button and after confirming sell window the listed stock will remove from the list and the equivalent money will be back to his account.
* in the listed stock section user can see all the stock and the price of the stocks and user also have a buy button, if user pressed the buy button, then it will ask for the quantity of the stocks and if the user confirm that then, it will deduct the equivalent money from the BO account.
* Then they brought stock will listed in the holding section.
* Can generate portfolio or report of the trading (can see holding stocks and also what price they buy those)
* In the home page user have an option called portfolio.
* If user click the portfolio page, it will open a new window where they have 3 sections:

Yearly report

Monthly report

Daily report

* If user select yearly report, it will generate a .text file and save to the downloads where user can see all the annual trading report of the user.
* If the user selects monthly report, then it will download a report which indicates all the trade of current month
* If the user selects daily report, it will generate a report of that day’s trading and in this report, user can see all the holding stock and price of the stocks
* Users have to give account opening fee and the monthly charge to the CDBL
* After opening the account user needs to deposit cash in the BO account and for start trading, they must give an account opening fee to CDBL.
* when they try to deposit money in the BO account, they will notify that the CDBL account opening fee is 500 taka and it will deduct automatically when user deposit their first cash in the BO account.
* When user try to deposit money, they will ask for the amount and method of transaction and check with the user Stockbroker or Marchant Bank for money avail or not in the account.
* If Stockbroker or Marchant Bank return affirmatively then it will transfer the money to the BO account and deducted 500 takas as account opening fee.
* After one month the home page notification center will notify the user about the monthly fee of the CDBL and under that user have an option called pay now.
* If user select pay now it will show that the charge of that month is 400 takas, and it will deduct from the BO account main balance if select confirm.
* If user select confirm it will check the account balance if the balance is >400 then it will deduct 400 taka and update it to monthly subscription paid. If balance is below 400 then it will show insufficient balance.

1. **IT Support & Help Team**

* Open BO account after getting permission from the management team
* IT team will provide valid email and password and procced to login.
* If login successful, then load home scene. Else show appropriate message
* select “Approved BO Accounts” button.
* It will show the user all the pending BO accounts for account opening.
* Select Create Account button.
* After accepting investor’s application by CDBL manager, add rest of digits of BO number with CDBL provided BO number to complete BO number for the investor.
* Send a message with new BO ID to the investor.
* Closing BO account for a current investor
* DPs will provide valid email and password and procced to login.
* If login successful, then load home scene. Else show appropriate message.
* Select “Investor account” button.
* Provide necessary information (BO ID, investor name, reason of closing)
* Select “submit” button.
* Checking payment due.
* If there is no payment due, then update DPs’ database, or show appropriate instruction.
* Update CDBL database.
* Link merchant bank account or broker account with the BO account
* IT Team will provide valid email and password and procced to login.
* If login successful, then load home scene. Else show appropriate message.
* Select “Link Account” button.
* User will see all the BO accounts number and under that we have a button called link bank account
* Select Link Bank Account button
* User have to give necessary details here (like-BO ID, Bank AC, BO Account Name etc)
* Select Submit button
* It will show Bank Account connect with BO account
* Checking market value in CDS in Tk.
* IT Team will provide valid email and password and procced to login.
* If login successful, then load home scene. Else show appropriate message.
* Select “Report” button.
* Select “Latest share price of DSE” to check DSE’s latest share price or select “Latest share price of CSE” to check CSE’s latest share price.
* Select “Print” to create pdf copy of latest share price of DSE or CSE.
* Take queries from people and try to answer them by mail
* IT Team will provide valid email and password and procced to login.
* If login successful, then load home scene. Else show appropriate message.
* Select “Queries” button.
* User can see all the queries saver by the name of email of the guest user
* To solve the queries, select the button answer and then write the appropriate answer in the box
* Select the send button to send a mail to the user with the answer

1. **Stockbroker or Marchant Bank**

* Link the BO account to a DP (depository participant) which (BO account)
* StockbrokerTeam will provide valid email and password and procced to login.
* If login successful, then load home scene. Else show appropriate message
* Select the Link Account button
* Give the details of the BO account holder in different fields (like- BO account holder name, BO ID etc.)
* Give the details of the bank account of the user
* Select the Link button to confirm
* Pledging and un-pledging of loans against shares
* StockbrokerTeam will provide valid email and password and procced to login.
* If login successful, then load home scene. Else show appropriate message
* Select Pledging loans
* Can see all the loan applications
* If share count match with the loan application, select approve button
* Can generate user’s account statement
* StockbrokerTeam will provide valid email and password and procced to login.
* If login successful, then load home scene. Else show appropriate message
* Select the button generate report
* Enter the user’s account number and account name
* If information match, then a pdf file will generate
* Take the monthly DP charges from the account holder
* StockbrokerTeam will provide valid email and password and procced to login.
* If login successful, then load home scene. Else show appropriate message
* Select the button Monthly Charge
* Here we can see all the delayed account number which account didn’t give the monthly charge so far
* We can send a notice to the account by selecting the submit button

1. **Guest user**

* Checking overview of CDBL
* Select “Take a tour” button to login as a guest.
* A home page will be load for guest user.
* Select “Overview” button to check overview.
* Take queries if there any from the user by their mail and send the queries to the IT team
* Any visitor in the app can ask question and queries for any kind of problem by pressing the general quires button.
* If quires button pressed the system, ask the user for their mail and then in another field ask for their queries and after giving the details if the send button pressed
* The quires will be saved in a memory and a notification will send to the IT class employee
* A list of services will be shown.
* Select any service to know about that service. For example, select “DIRECT ACCOUNTS” to know about Direct accounts service.
* Checking latest share price of DSE or CSE
* Guest user Select “Take a tour” button in the login page to login as a guest without open an account.
* A home page will be load for guest user.
* Select “Latest price” button.
* Select “DSE” or “CSE” button, to checking latest share price of that market. Or select “World” button to check worldwide top 100 company’s latest share price.
* Checking CDBL FEES AND DEPOSITS
* Guest user Select “Take a tour” button in the login page to login as a guest without open an account.
* A home page will be load for guest user.
* Select “Fees and Deposits” to know about fees and deposits.
* Select “Print” to create and download pdf version of