E-Fixed Deposits- A global bank to introduce a few features

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1. Project Overview:

Business Need / Problem Statement: One of the leading banks across the globe, is ABC Bank. It has a presence in 56 countries in the world. ABC Bank currently has a manual option to create fixed deposits. The bank users go to the nearest ABC Bank branch and create a fixed deposit. ABC Bank has a future vision of being a 100% online bank and wants to do away with all its manual banking processes. They have identified the need to create e-fixed deposits

Change: ABC Bank currently wants to introduce this to their existing bank users with a future of introducing this feature to non-ABC Bank users

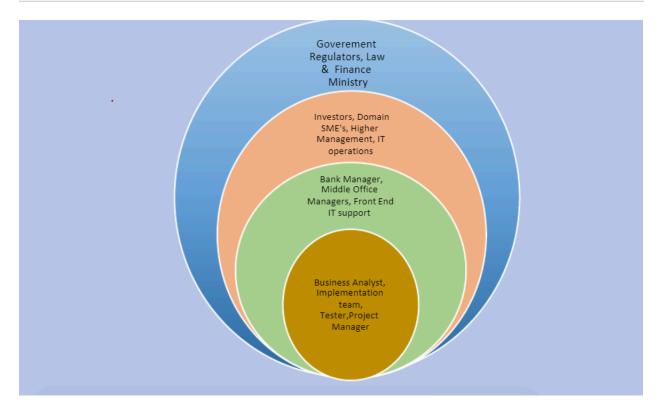
Solution: Provision of opening an FD online

Easy and less time-consuming: An online FD can eliminate the process of visiting the bank physically and makes the process of creating an FD an extremely easy and hassle-free process.

Easy payment: Paying for the FD is extremely easy and can be done directly through net banking which makes the process of payment very convenient. All that is required is to transfer the money from the savings account to the respective FD account. **Easy renewal and closure:** Once an FD account is opened online, it is possible to renew and close the deposit online instantly. Therefore, it eliminates the need to go to the bank for any of these purposes.

Stakeholder Map via Stakeholder Matrix and Onion Peel Diagram

,	IT Support		Specialistic Support		
	Bank Front Line	IT Development team	Bank Staff and Operational Support		
e	Bank Front Line	Business Analyst	Project Technical Lead		
n c	Monitor	Keep Informed			
l u e	Bank Management	Middle Of	fice Manager		
h I n	Government, Regulatory Body Law & Finance Ministry		Banking SME ligher Management Board Members		



- Provision to create a fixed deposit using their existing online account
- Provision to create a fixed deposit using their existing mobile account
- Provision to create joint FD
- Allows hassle-free, easy, and less time-consuming process of creating an FD
- Making a payment to FD through an online process making it more secure for the bank users
- Easy Renew paperless process Credit maturity amount to user's savings or current account
- Reduced time to generate daily reports as the process is automated and the records are generated in real-time

2. As-is and Future Process Maps:

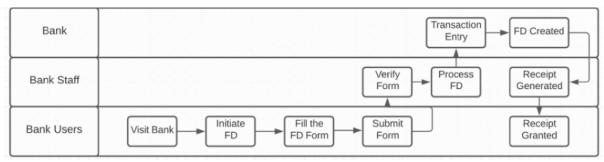


Figure 2: As-is Process Map

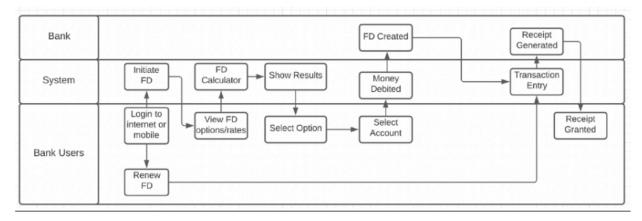


Figure 3: Future Process Map

3. Scope of Online FD, Main features to be developed:

Scope

A Fixed Deposit is considered one of the safe investment instruments through which you can earn interest income

Fixed Deposits promise guaranteed returns and involve no risk of loss of principal amount as they are not unaffected by market fluctuations

The scope of investment has expanded tremendously in recent times. Banks today offer multi-investment plans for you to choose from; one of them is Fixed Deposits. Fixed Deposits are the most secure method of investment. You earn guaranteed returns that are unaffected by market fluctuations.

Main Features of Fixed Deposit & Benefits

- Secure Investment
- Fixed Deposits are safe instruments that offer fixed returns
- No Risk
- There is no risk in the principal amount invested
- Rate of Interest
- You can opt to receive the interest earned either periodically, i., monthly, or quarterly or go with the cumulative method and receive a lump sum amount on maturity.
- Most banks offer senior citizens a 0% higher interest rate on Fixed Deposits.
- Returns on Fixed Deposits are safe from market fluctuation.
- You can also have the option to apply for a top-up loan against your Fixed Deposit in case you need funds.
- Flexible Tenure and Renewal. FDs can be held for tenures lasting from a week to 10 years. You can choose your preferred term at the time of opening the FD, which can conveniently renew the FD on maturity.

Main Features to be Developed

- 1. Provision to create a Fixed Deposit online through the web portal of the bank
- 2. Provision to create a Fixed Deposit online through the mobile application of the bank
- 3. Provision to select appropriate fixed deposit options based on tenure and interest rate for normal users
- 4. Provision to select appropriate fixed deposit options based on tenure and interest rate for senior citizen users
- 5. Provision for a user to calculate maturity amount using a fixed deposit calculator by entering the amount the user the interested in investing and selecting the tenure

- 6. Provision to select the bank account from which the money should be deducted for the fixed deposit if the user has more than one account in ABC bank
- 7. Provision to Renew the fixed deposit with two maturity instructions
- 8. Provision to create a joint fixed deposit case with the name of the other customer along with his/her SSN details
- 9. Provision to add Nominee details to the fixed deposit
- 10. Provision to fixed deposit receipt in PDF format which should be emailed to the customer as the information mentioned in the system
- 11. Provision to fixed deposit PDF copy to reflect in the online banking account and mobile banking account
- 12. Provision to generate reports in the system

4. In Scope & Out of Scope:

In Scope	Out of Scope
 Creation of Fixed Deposit for existing Internet banking and Mobile Banking users System should check if the users creating fixed deposits meet the following criteria Have a savings account with ABC Bank Have an active online banking account Have an active mobile banking account List of latest Fixed deposit rates by tenure, amount to be invested and user (Regular, Senior) should be displayed to the user depending on the user interface (Internet, Web) they are using Fixed Deposit calculator should allow the user to calculate the maturity amount based on the input provided by the users Account selection from which money should be debited to create a fixed deposit Option to renew the fixed deposit 	Creation of Fixed Deposit for users who do not have an account in ABC bank Transfer of Fixed Deposits

Option to close the fixed deposit before maturity
Create a Joint fixed deposit
Specify Nominee details
Reports

5. Business requirements, functional and non-functional requirements

A. Functional Requirements

1. Bank User (Mobile & Internet banking)

- As a customer of ABC I should be able to a create a fixed deposit using my online banking account or existing mobile banking account so that I can invest my money in it
- As a customer of ABC I should be able to view the various FD rates based on period, amountto be invested and interest rates applicable for normal/senior citizen users so I can decide on the option
- As a customer of ABC bank I should be able calculate the maturity amount using the fixed deposit calculator based on the investment amount entered and period selected so that I can visibility into the maturity amount
- As a customer of ABC bank I should be able to select a bank account from which the amount to be invested if I hold multiple account at ABC bank so that I can decide from which account the money should be debited
- As a customer of ABC bank I should be able to renew my fixed deposit for the same tenor as opted during the first time so that I can choose to reinvest the money
- As a customer of ABC bank I should be able to choose where the maturity amount of the fixed deposit should be credited so I can choose between savings or current account
- As a customer of ABC bank I should be able to Joint FDs, so that I can associate the fixed deposit between two people
- As a customer of ABC bank I should be able to choose a nominee for the fixed deposit so that the nominee is benefited with the fixed deposit in case of any unfortunate event
- As a customer of ABC bank I should receive the a receipt of fixed deposit create in form
 of pdf copy on my registered email id with the bank so that I can maintain a record in
 case of any dispute. This email copy should be available on the Internet & mobile
 banking platforms as well

2. Bank Users/Management

- As a Bank employee/management I should be able to generate certain types of reports so that I have visibility in sales, value generated, and interest paid through fixed deposits created
- As an employee of the bank I should be able to export the desired report in excel format so that I can further analyse the data

B. Nonfunctional Requirement

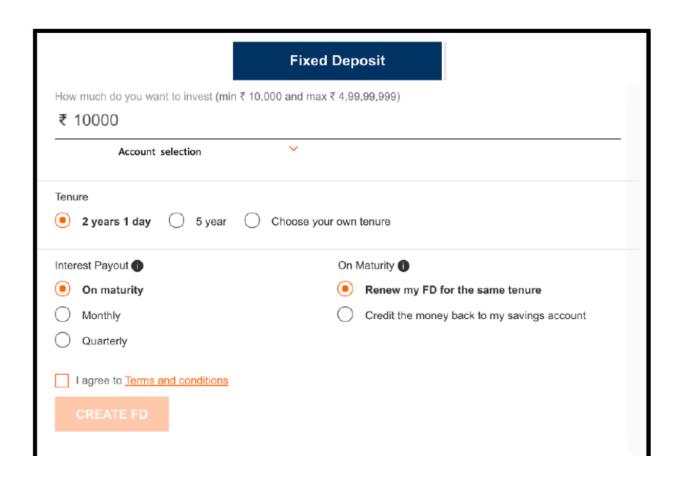
- Only fixed deposits can be created using this system
- The customer should be emailed a PDF copy of the FD receipt on email id registered with the bank
- PDF copy of the FD receipt generated should reflect in the online banking account and mobile banking account

6. Mock Screens of two features:

FD Calculator

FD Calculator								
How much do you want to invest								
Account selection Amount								
Tenure (Minimum 6 months and maximum 10 years and in multiples of 3) 1 year 9 months Choose your own tenure Year Month								
Monthly debit date Debit Date ✓		Maturity date						

FD Creation



7. Product Backlog in JIRA:

Internet Banking:

EPIC/S tory ID	Title	Theme	Story Point	Acceptance Criteria	Iteration Path
FD-1/ FD-4	As a customer of ABC bank I should be able to a create a fixed deposit using my online banking account or existing mobile banking account so that I can invest my money in it	Internet Banking	7	Given that the user has access to the application. If the user is a valid customer of the bank and holds account with the bank and has internet banking there should provision to create a fixed deposit	Release 1- Sprint 1
FD-1/ FD-5	As a customer of ABC bank I should be able to view the various FD rates based on period, amount to be invested and interest rates applicable for normal/senior citizen users so I can decide on the option	Internet Banking	1	The user should have provision to view the various Fixed deposit plans offered by the bank with following details Period (7 days to 10 years with appropriate intervals) User rates (normal/senior) Amount invested (Rates for amounts <1.5 Million USD or Rates for amounts >=1.5 Million to < 4 Million USD)	Release 1 Sprint 1
FD-1/ FD-6	As a customer of ABC bank I should be able calculate the maturity amount using the fixed deposit calculator based on the investment amount entered and period selected so that I can visibility into the maturity amount	Internet Banking	3	The customer should be able to calculate the maturity amount based on the FD rates displayed on the website by provided the following the input Amount to be invested Period of investment selected	Release 1 Sprint 1
FD-1/ FD-7	As a customer of ABC bank I should be able to select a bank account from which the amount to be invested if I hold multiple account at ABC bank so that I can decide from which account the money should be debited	Internet Banking	3	The customer who holds multiple bank accounts should be able choose from which account the money should be debited to create the fixed deposit	Release 1 Sprint 1

FD-1/ FD-8	As a customer of ABC bank I should be able to renew my fixed deposit for the same tenor as opted during the first time so that I can choose to reinvest the money	Internet Banking	3	The customer should have an option to renew the fixed at certain duration before maturity The duration can set by the administrator	Release 1- Sprint 1
FD-1/ FD-9	As a customer of ABC bank I should be able to choose where the maturity amount of the fixed deposit should be credited so I can choose between savings or current account	Internet Banking	2	The customer who holds multiple bank savings or current accounts should be able choose to which account the money should be credit once the fixed deposit is matured	Release 1- Sprint 1
FD-1/ FD-10	As a customer of ABC bank I should be able to Joint FDs, so that I can associate the fixed deposit between two people	Internet Banking	2	The customer should be able to create joint FD with more than once customer of ABC bank, the system should validate the SSN details in this case	Release 1- Sprint 1

Mobile Banking:

EPIC/S tory ID	Title	Theme	Story Point	Acceptance Criteria	Iteration Path
FD-2/ FD-13	As a customer of ABC bank I should be able to a create a fixed deposit using my online banking account or existing mobile banking account so that I can invest my money in it	Mobile Banking	7	Given that the user has access to the application. If the user is a valid customer of the bank and holds account with the bank and has Mobile banking there should provision to create a fixed deposit	Release 1- Sprint 2
FD-2/ FD-14	As a customer of ABC bank I should be able to view the various FD rates based on period, amount to be invested and interest rates applicable for normal/senior citizen users so I can decide on the option	Mobile Banking	1	The user should have provision to view the various Fixed deposit plans offered by the bank with following details Period (7 days to 10 years with appropriate intervals) User rates (normal/senior) Amount invested (Rates for amounts <1.5 Million USD or Rates for amounts >=1.5 Million to < 4 Million USD)	Release 1- Sprint 2

FD-2/ FD-15	As a customer of ABC bank I should be able calculate the maturity amount using the fixed deposit calculator based on the investment amount entered and period selected so that I can visibility into the maturity amount	Mobile Banking	3	The customer should be able to calculate the maturity amount based on the FD rates displayed on the website by provided the following the input Amount to be invested Period of investment selected	Release 1- Sprint 2
FD-2/ FD-16	As a customer of ABC bank I should be able to select a bank account from which the amount to be invested if I hold multiple account at ABC bank so that I can decide from which account the money should be debited	Mobile Banking	3	The customer who holds multiple bank accounts should be able choose from which account the money should be debited to create the fixed deposit	Release 1- Sprint 2
FD-2/ FD-17	As a customer of ABC bank I should be able to renew my fixed deposit for the same tenor as opted during the first time so that I can choose to reinvest the money	Mobile Banking	3	The customer should have an option to renew the fixed at certain duration before maturity	Release 1- Sprint 2
FD-2/ FD-18	As a customer of ABC bank I should be able to choose where the maturity amount of the fixed deposit should be credited so I can choose between savings or current account	Mobile Banking	2	The customer who holds multiple bank savings or current accounts should be able choose to which account the money should be credit once the fixed deposit is matured	Release 1- Sprint 2
FD-2/ FD-19	As a customer of ABC bank I should be able to Joint FDs, so that I can associate the fixed deposit between two people	Mobile Banking	2	The customer should be able to create joint FD with more than once customer of ABC bank, the system should validate the SSN details in this case	Release 1- Sprint 2
FD-2/ FD-20	As a customer of ABC bank I should be able to choose a nominee for the fixed deposit so that the nominee is benefited with the fixed deposit in case of any unfortunate event	Mobile Banking	2	The customer should be able to add nominee details to the FD at any point in time in duration of the FD with the following details Name, Age & relationship with user If the nominee is a minor, then	Release 1- Sprint 2
				system should request for the guardian details	

Reports:

EPIC/S tory ID	Title	Theme	Story Point	Acceptance Criteria	Iteration Path
FD-3/ FD-22	As an employee of the bank I should be able to view the following reports with the necessary details so they make better decisions based on the same	Mobile Banking	5 per report	The employee of the ABC bank should be able to generate the report and view them	Release 1- Sprint 3
	 Total value of FDs for users with tenor of less than 6 months. Total value of FDs for senior citizens with tenor of less than 6 months. Total value of FDs for users with tenor of between 6 months 1 day and 1 year. Total value of FDs for senior citizens with tenor of between 6 months 1 day and 1 year. Number of FDs that are more than 1.5 million USD for normal users. Number of FDs that are more than 1.5 million USD for senior citizen users. 				
FD-3/ FD-23	As an employee of the bank I should be able to export the desired report in excel format so that I can further analyse the data	Mobile Banking	1 per report	The employee of the ABC bank should able download the reports in excel format at click of the button	Release 1- Sprint 3

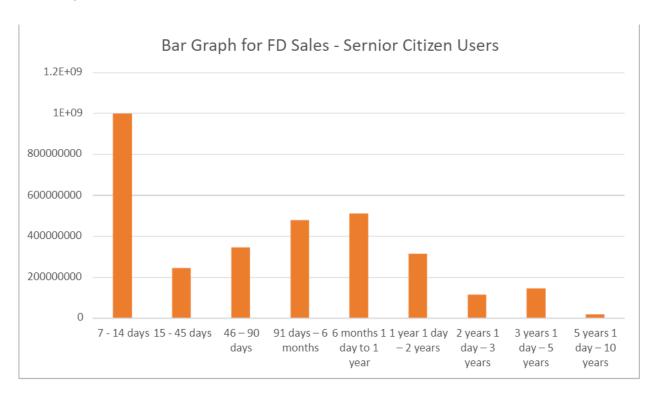
8. Excel Tasks

a) Create a bar graph showing the FD sales investment. Draw two bar graphs: one for normal users and the other for senior citizens. label the chart drawn correctly so that senior management gets a clear report of sales.

Bar Graph for FD Sales - Normal Users



Bar Graph for FD Sales - Senior Citizen Users



- b) Arrange the data above in Excel in ascending and descending order.
- a) Using Vlookup for product code HDH, find the rate for senior citizens for amounts less than 2 crore

b) Using Vlookup for product code YFF, find the rate for senior citizens for amounts less than 2 crore.

Q1	Using vlookup for product code HD	H, find the rate	for senior	citizens fo	r amounts less t	han 2 crore.
Ans	3.5	%				
	=VLOOKUP(C4,C4:G12,4,TRUE)*100					
Q2	Using vlookup for product code YF	F, find the rate	for senior	citizens for	amounts less th	nan 2 crore.
Ans	6.25	%				
	=VLOOKUP(C12,C4:G12,3,TRUE)*100					

9. Tableau Tasks

Create a dashboard for senior management to view FDs created over the last 6 months. Make assumptions as appropriate and create the dashboard using your own mock data. For any missing data, make your assumptions to create mock data. Write down the assumptions as well.

