DATA DICTIONARY

TICK TAX

Submitted By:

19103012 Prateek Singh

19103039 Manav Malhotra

19103069 Uday Pratap Singh Thakur

19103073 Taptej Kaur

PROCESSES

Sr. No.	Process	Description	Inbound Data Flow	Outbound Data Flow
1.	Log in	Logging on Website	Login credentials	Login feedback
2.	Profile Info	Requesting personnel info to setup the profile	User Details	Feedback (complete/error)
3.	Updation	Any changes or updates in profile are made	Changes in Profile	Feedback (complete/error)
4.	Document Verification	Verifies documents submitted by the user	Official Documents	Feedback (complete/error)
5.	Tax Calculation	Calculates Tax, considering all income, assets and schemes applicable	Total income and worth of other assets	Total tax to be paid
6.	Calendar	Checks dates setup by the Govt. for payment and reminds the user	Due dates and time	Reminders for dates and time of payment
7.	Rewards	Randomly gives rewards to user on right payment of taxes	Tax payment information	Chosen Reward

DATA FLOW

1.

Data Flow Name	Login credentials
Description	Details that user enters to identify herself
From Process	-
To Process	Login
Data Structures	User's login credentials

2.

Data Flow Name	Login feedback
Description	Identity verification feedback
From Process	Login
To Process	-
Data Structures	User's Login credentials

3.

Data Flow Name	User details
Description	Unique personal details of a particular user
From Process	-
To Process	Profile Info
Data Structures	User's unique details

4.

Data Flow Name	Changes in profile
Description	To do if there are any changes in user's profile
From Process	-
To Process	Updation
Data Structures	User's unique details

5.

Data Flow Name	Total income and worth of other assets
Description	Total income and worth of other assets after verification
From Process	Document verification
To Process	Tax Calculation
Data Structures	Total worth of assets

6.

Data Flow Name	Official Documents
Description	Official documents to be submitted by the user for verification
From Process	Profile Info
To Process	Document verification
Data Structures	User's Documents

7.

Data Flow Name	Total tax to be paid
Description	Total calculated tax to be paid by the user
From Process	Tax Calculation
To Process	-
Data Structures	Total Tax

8.

Data Flow Name	Due dates and time
Description	Due dates and time that the govt sets for payment of taxes
From Process	-
To Process	Calendar
Data Structures	Date details

9.

Data Flow Name	Reminders for dates and time of payment
Description	Reminders to the user of the due dates and time set by the govt
From Process	Calendar
To Process	-
Data Structures	Date details

10.

Data Flow Name	Chosen Reward
Description	Reward chosen for user after payment of taxes
From Process	Rewards
To Process	-
Data Structures	Reward details

11.

Data Flow Name	Tax payment information
Description	If the tax has been paid successfully
From Process	-
To Process	Rewards
Data Structures	Payment details

DATA STRUCTURES

1. <u>User's login credentials:</u>

   Username

   Password

2. <u>User's unique details:</u>

   Name

   Address

   Email

   Phone number

   PAN

   AADHAR number

Password

Source of income

Annual income

Property's worth

3. Use's Documents:

   Source of income

   Annual income

   Property's worth

4. Total worth of assets:

   Annual income

   Total Property's worth

5. Total Tax:

   Total calculated tax

6. Date details:

   Date   Time

7. Payment details:

   Receipt number   Confirmation

8. Reward details:

   Confirmation

   Reward name

DATA STORES

P		PRIMARY KEY
F		Foreign key

TABLE	P/F	FIELD NAME	DATA TYPE	DATA SIZE/LENGTH
USER	P	Username	TEXT	8 characters
		Password	TEXT	32 characters

TABLE	P/F	FIELD NAME	DATA TYPE	DATA SIZE/LENGTH
USER	P	Name	TEXT	32 characters
		Address	TEXT	128 characters
		Email	TEXT	32 characters
		Phone no.	INTEGER	4 bytes
		PAN	INTEGER	4 bytes
		AADHAR number	INTEGER	4 bytes
		Source of income	TEXT	32 characters
		Annual income	INTEGER	4 bytes
		Property's worth	INTEGER	4 bytes
		Password	TEXT	32 characters

TABLE	P/F	FIELD NAME	DATA TYPE	DATA SIZE/LENGTH
USER_DOCUMNETS	P	Source of income	TEXT	32 characters
		Property's worth	INTEGER	4 bytes
		Annual income	INTEGER	4 bytes

TABLE	P/F	FIELD NAME	DATA TYPE	DATA SIZE/LENGTH
ASSETS WORTH	P	Annual income	INTEGER	4 bytes
		Property's worth	INTEGER	4 bytes

TABLE	P/F	FIELD NAME	DATA TYPE	DATA SIZE/LENGTH
TOTAL TAX	P	Total calculated tax	INTEGER	4 bytes

TABLE	P/F	FIELD NAME	DATA TYPE	DATA SIZE/LENGTH
DATE DETAILS	P	Date	Date	
		Time	Time	

TABLE	P/F	FIELD NAME	DATA TYPE	DATA SIZE/LENGTH
PAYMENT DETAILS	F	Receipt number	INTEGER	4 bytes
		Confirmation	Boolean	1 bit

TABLE	P/F	FIELD NAME	DATA TYPE	DATA SIZE/LENGTH
REWARD DETAILS	F	Confirmation	Boolean	1 bit
		Reward name	TEXT	32 character