

**WEB APPLICATION
FOR
TRANSPARENT GOVERNMENT:
TAXATION VS SPENDING**

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A project submitted for

**System Design Practice (SDP)
In
Computer Engineering**

**TECHNOLOGY: JAVA
DATABASE: ORACLE**

Under The Guidance of

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APRIL 2017**

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CERTIFICATE

This is to certify that the project carried out in the subject of System Design Practice entitled “**TRANSPARENT GOVERNMENT: TAXATION VS SPENDING**” and recorded in this report is a work of

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ACKNOWLEDGEMENT

It is our privilege to express our sincerest regards to our project coordinator, **Prof. Jigar M. Pandya** for their valuable inputs, able guidance, encouragement, whole-hearted cooperation and constructive criticism throughout the duration of our project. We deeply express our sincere thanks to our Head of Computer Department **Dr. C.K.Bhensdadia** for encouraging and allowing us to present the project on the topic “**TRANSPARENT GOVERNMENT: TAXATION VS SPENDING**” at our department premises for **System Design Practice (SDP)** in **Computer Engineering**. Last but not the least we express our thanks to all our lecturers and friends who have directly or indirectly helped our project.

Thanks and Regards,

Bhavik Bhalodia,

Vivek Bhingaradiya &

Kishan Ghelani

ABSTRACT

In India and other countries of world, because of the corruption people don't have trust on system and they don't pay tax. So to solve this problem TRANSPARENT GOVERNMENT is useful.

For this application there are three types of user tax payer, government officer, citizen. In this application people (tax payers) have to pay tax online as per their income. And if any government officer want to spent money which is came from taxation, at that time he have to fill form. Any government officer can't spend more than the amount which given to his or her department. System manage all this taxation and spending details. This system provide best view via chart of taxation vs. spending details according time state and city, so that any citizen can review the details of taxation and spending details.

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CHAPTER

1. INTRODUCTION

1.1. PURPOSE

The purpose of this system is to make transparent governance, for that one of the best option is to make all transaction online for paying tax and the expansion of all the department of government. And any of the civilian can see all the transaction.

1.2. DOCUMENT CONVENTION

IEEE standard for SRS.

1.3. INTENDED AUDIENCE AND READING SUGGESTIONS

System has different types of reader that the document is intended for such as developer, project manager, testers and documentation writer. The SRS has been made in order of increasing specificity. Using this SRS customers and their staff can easily understand the features of software and can use it efficiently for more productive.

1.4. PRODUCT SCOPE

- Easy to use
- Increase the speed of management of governance
- User friendly interface
- User can see all the transaction whether he is government servant or any tax payer or any normal citizen.

1.5. REFERENCES

IEEE standard for SRS and software engineering chapter 5.

CHAPTER

2. ABOUT THE SYSTEM

2.1. MODULES

- ⇒ There are three different modules are in the system.
 - Civilians
 - Tax payer
 - Government officer

2.2. PRODUCT FUNCTIONS

- **Civilian Panel**
 - ⇒ All civilian can view tax and spending budget of the country via different type of charts without login or registration in the system.
- **Government Officer's panel**
 - ⇒ All government officers can register themselves. There must be one office per one department. After login within any department he/she can spend money within his/her department. Any officer cannot spend money other department apart from his/her department.
- **Tax payer's panel**
 - ⇒ All tax payers can register themselves. There are two tax type for any tax payer. One is personal tax and second is business tax. All tax payers have to pay tax according percentage given by admin.

2.3. REQUIREMENTS

Registration and Login page:

2.3.1. Description and Priority

Registration is for the users who want to be associated with the web-app for long period to avail long term benefits.

Login page is for already registered users.

2.3.2. Stimulus/Response Sequences

System provides two option on the first page – Register and Login

If the user selects register then the registration page will be displayed where user has to fill all the details. After successful registration new account will be created for that user.

If the user selects Login option the user will be asked for user name and password and will be directed to his/her personalized home page.

2.3.3. Functional Requirements

REQ-1: System should provide registration page.

Input: User Details

Output: Registration Status

Process: System takes all the user details, does the input validation and adds to the data database hence new user account is created.

Error Condition: If user details are incomplete or in improper format the System redirects to the same page and asks user to refill data.

REQ-2: System provides Login Page

Input: User name and password

Output: Validation Status

Process: System takes user name, password and verifies with the database.

Error Condition: If user name or password is incorrect then system gives appropriate message.

REQ-3: System should provide reset password facility.

Input: Username and mobile no. or email id and new password and confirm password.

Output: password status

Process: System takes username and mobile number or email and then send verification code to given mobile number or email and then check verification code whether it is same or not. If same then system should check whether new password and confirm password are same or not. If same then system should update the database.

Error Condition: If user enter incorrect verification code then system should give error. If user enters incorrect password or not in required form then should give appropriate message.

Form for tax paying and spending money

REQ-4: System must have department and places where the money is spent.

Input: Select department, place and total amount where they spent.

Output: Status of the spent money.

Process: Enter the details of the spent money into database and give output.

Error Condition: If the internet connection lost then error occur.

REQ-5: System must have department where the tax payer have to pay tax.

Input: Select department and total amount for tax.

Output: Status of the paid money and transaction ID.

Process: Validate the user and accept tax and enter the details of the tax into database and provide transaction ID.

Error Condition: If the internet connection lost then error occur.

Chart for the any Citizen

REQ-6: System should show all the spending details within given time in forms, reports and charts.

Input: Select city and department.

Output: Details in form of charts.

Process: Fetch the details from the database and show into the form of charts via Google API.

REQ-7: System should provide tax details as per searching facility on department and places.

Input: Select city and department.

Output: Details in form of charts.

Process: Fetch the details from the database and show into the form of charts via Google API.

2.4. OPERATION ENVIRONMENT

Software specification of the system that used for this project is,

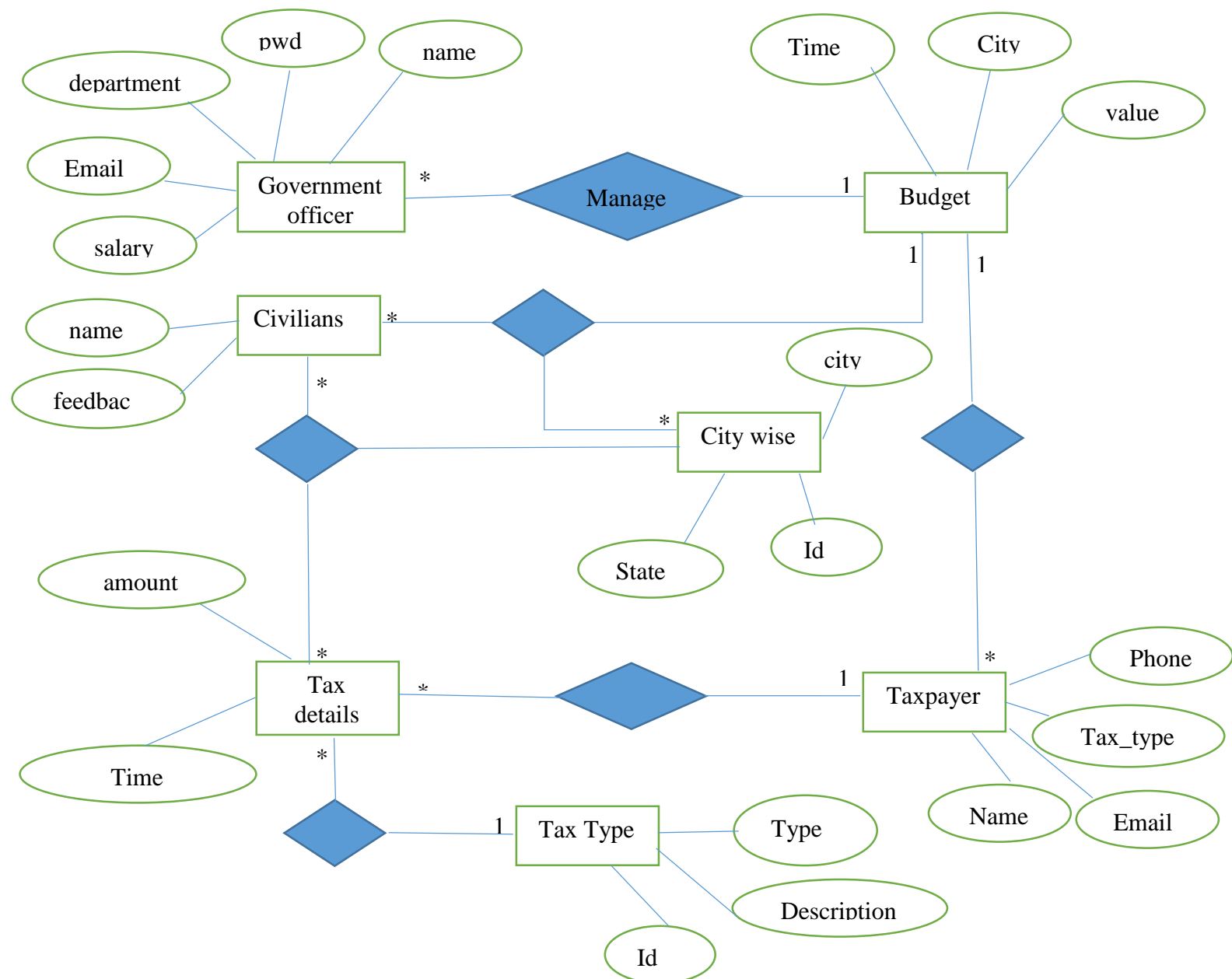
Operating System : Any OS on which able to install java and oracle and apache for php.

For Database : Oracle Database Express Edition 11g

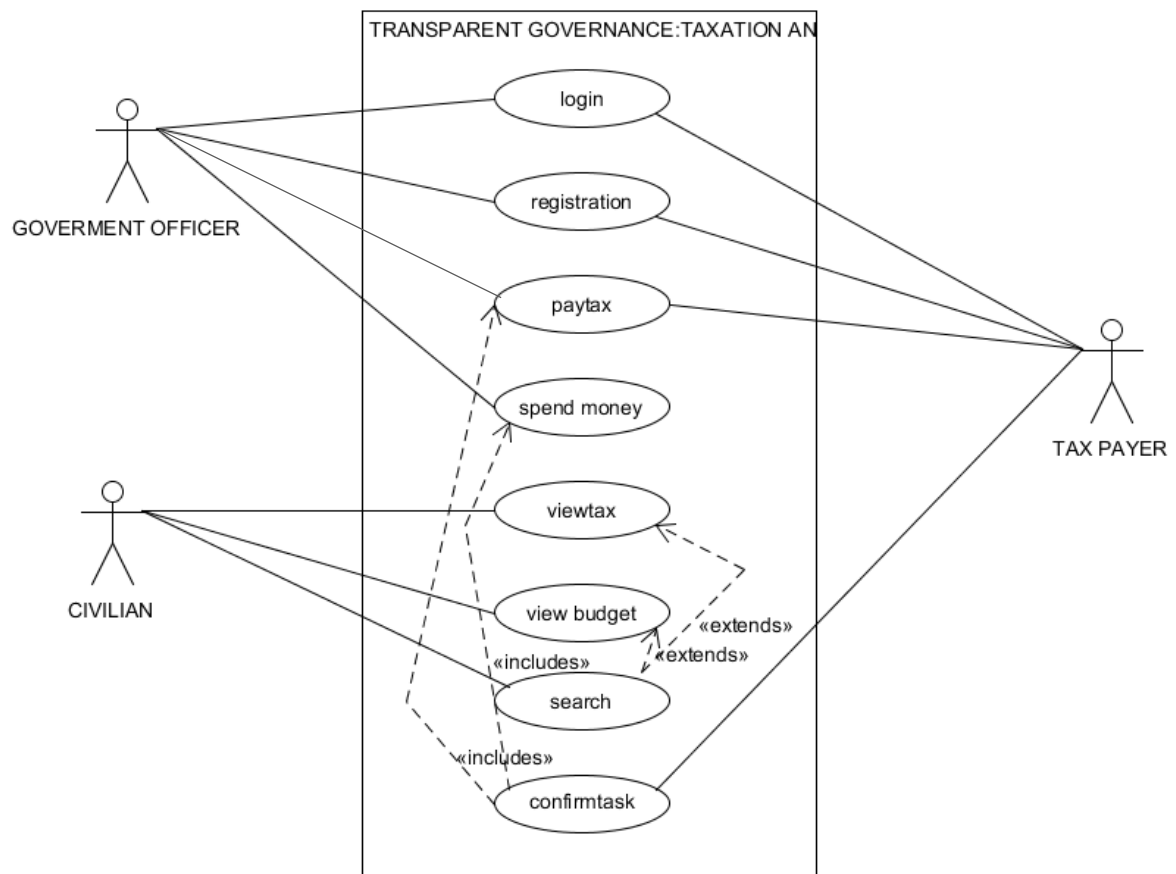
CHAPTER

3. ANALYSIS & DESIGN

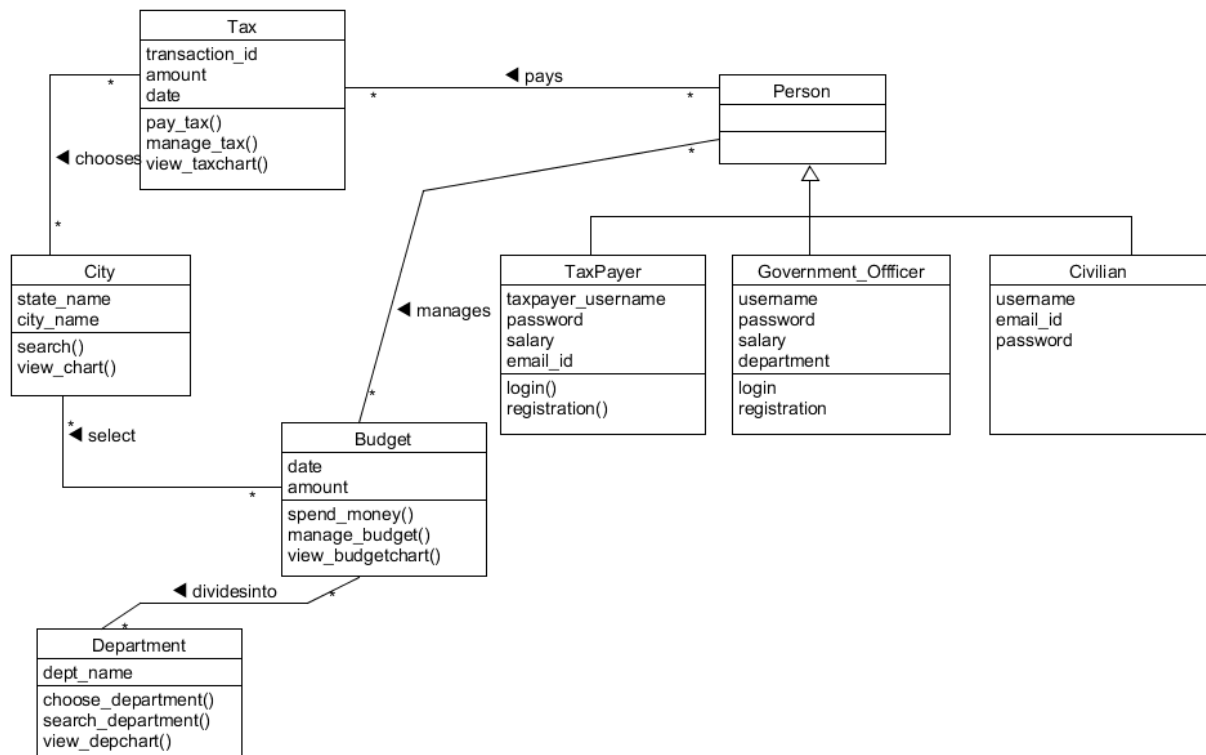
3.1. ER DIAGRAM



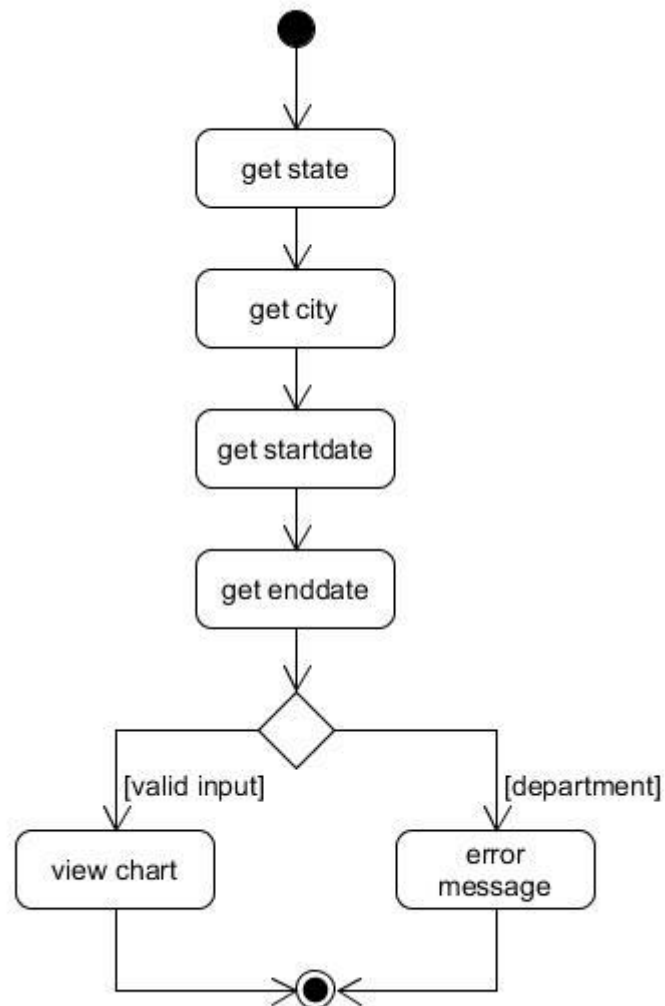
3.2. USE CASE DIAGRAM



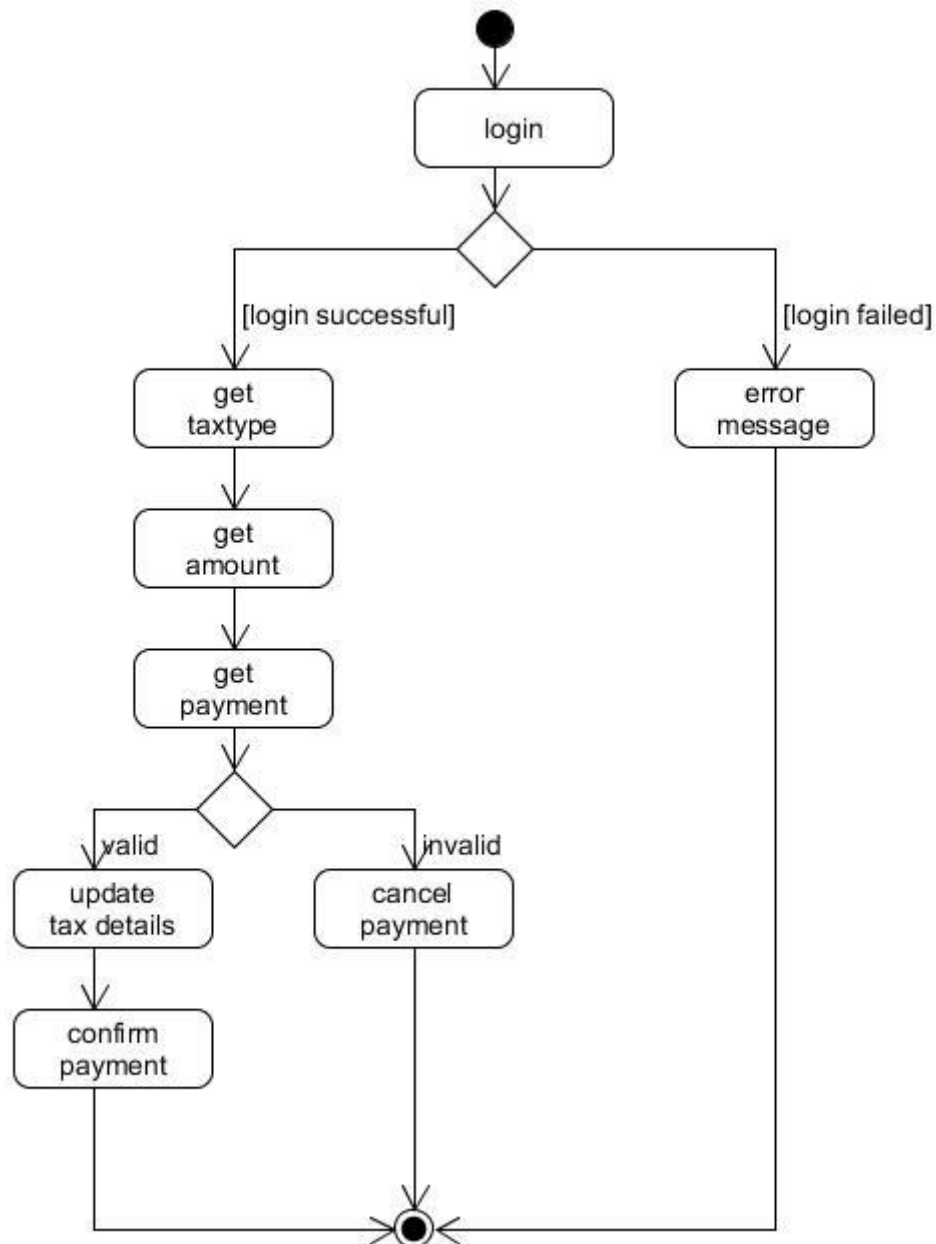
3.3. CLASS DIAGRAM



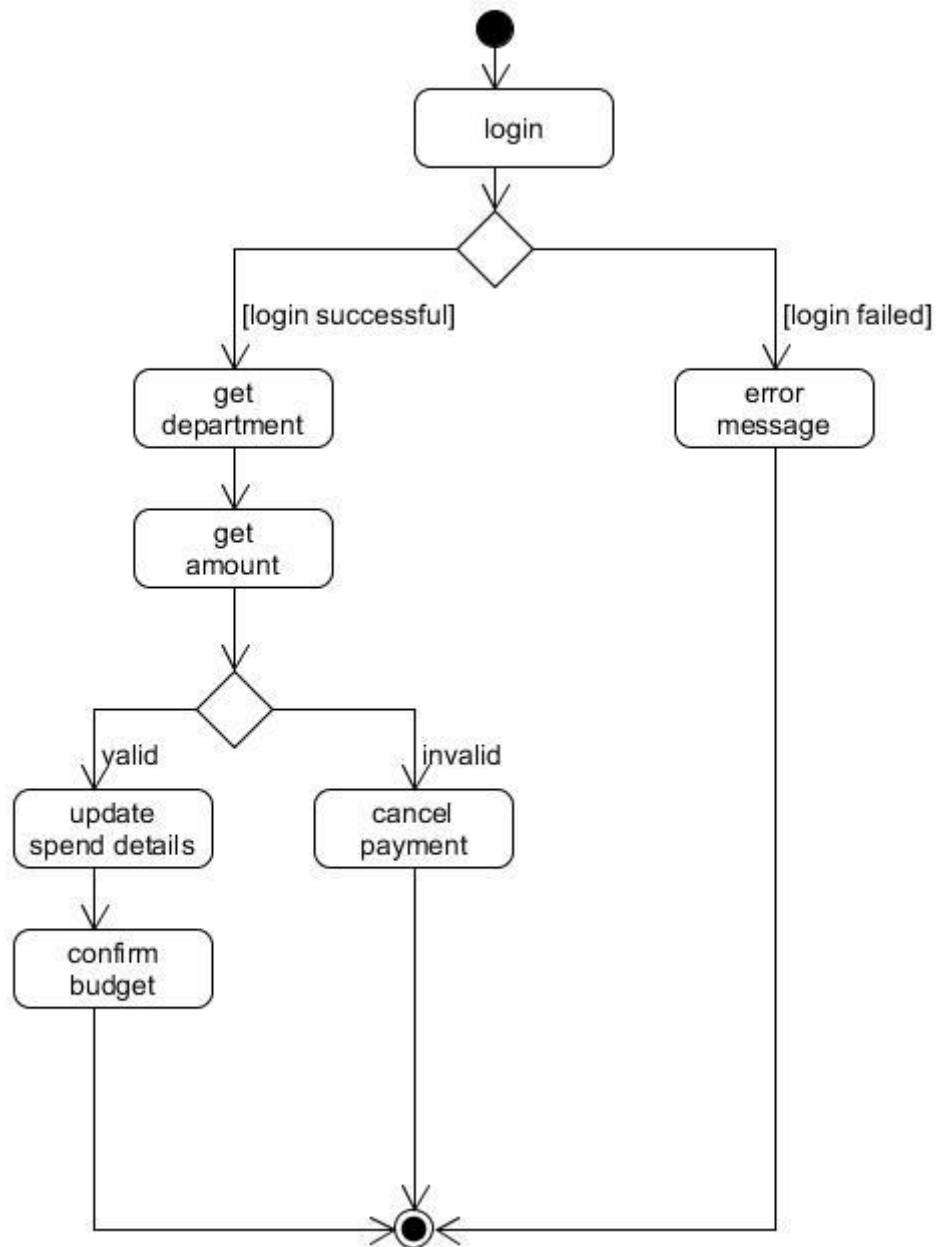
3.4. ACTIVITY DIAGRAM



View Chart Activity Diagram

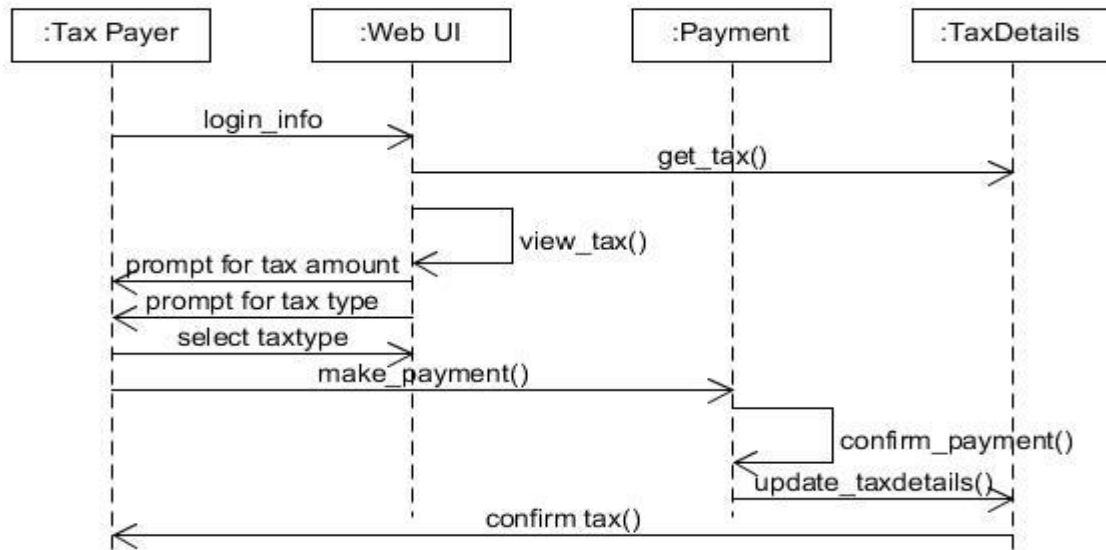


Pay Tax Activity Diagram

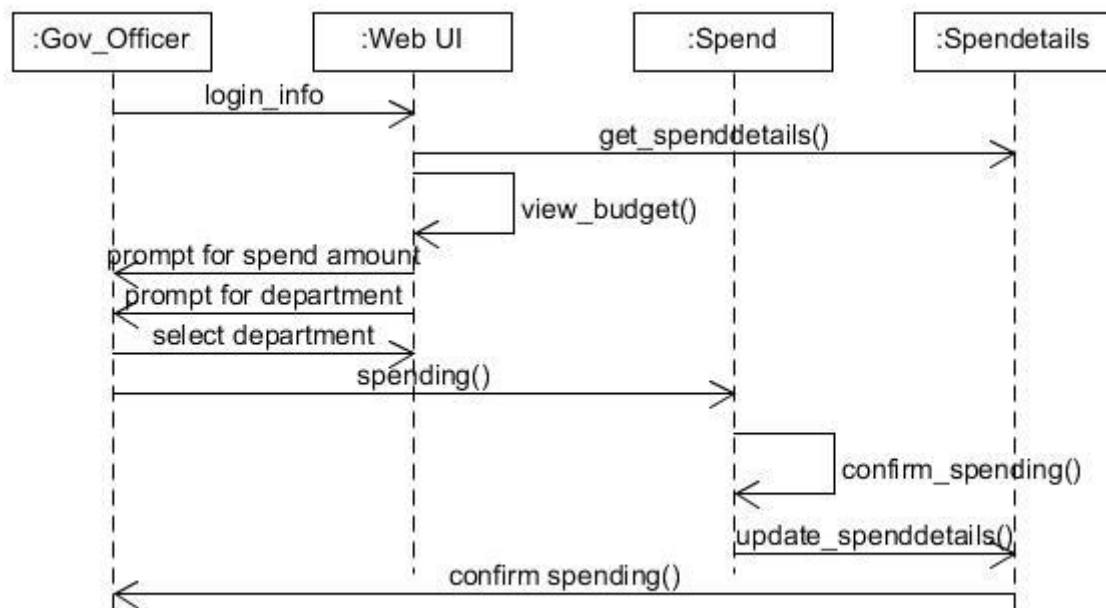


Spend Money Activity Diagram

3.5. SEQUENCE DIAGRAM

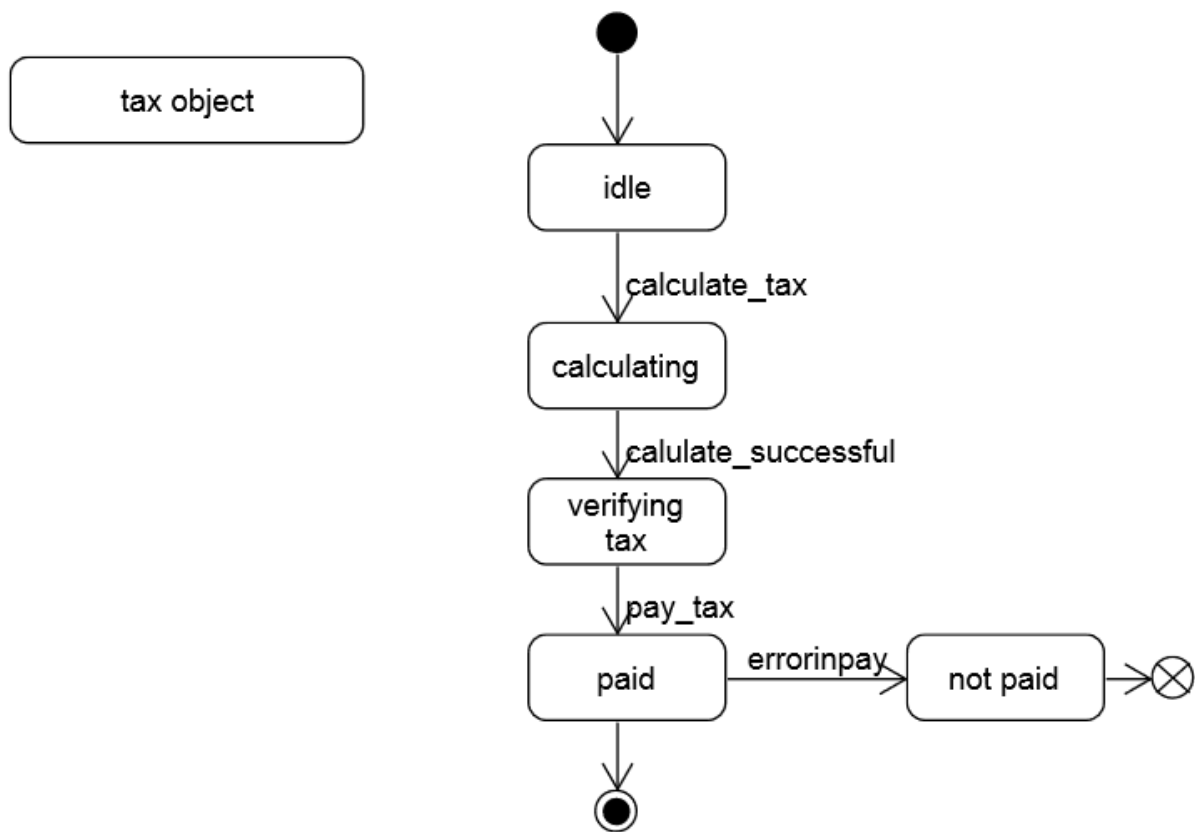


Pay Tax Sequence Diagram



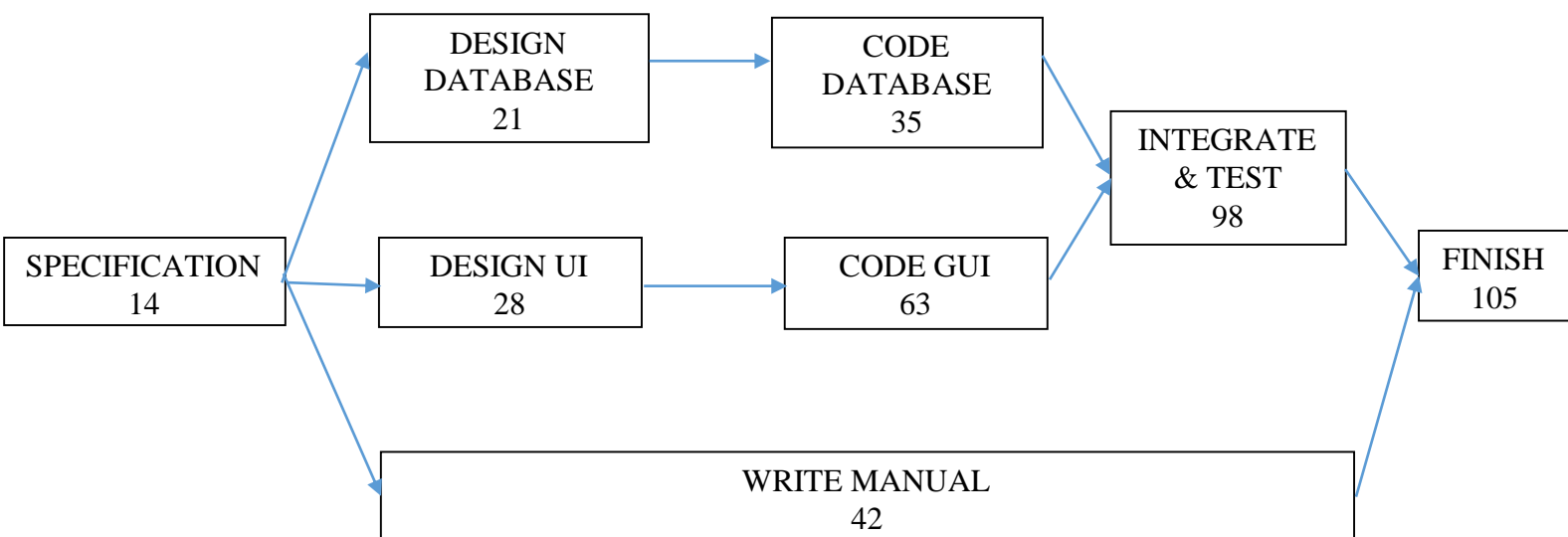
Spend Money Sequence Diagram

3.6. STATE DIAGRAM



State Diagram for Taxation

3.7. ACTIVITY NETWORK DIAGRAM



CHAPTER

4. SQL DDL & DATA DICTIONARY

4.1. SQL DDL

4.1.1. CITY_NAME

```
CREATE                                     TABLE
"TRANSPARENT_GOVERNANCE"."CITY_NAME"
(
  "ID"                NUMBER(*,0),
  "CITY_NAME"         VARCHAR2(20 BYTE),
  "STATE_NAME"        VARCHAR2(20 BYTE)
)
SEGMENT CREATION IMMEDIATE PCTFREE 10 PCTUSED 40
INITRANS 1 MAXTRANS 255 NOCOMPRESS LOGGING
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1
MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1
FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE
DEFAULT CELL_FLASH_CACHE DEFAULT) TABLESPACE
"USERS" ;
```

4.1.2. GOVERNMENT_OFFICER

```
CREATE                                     TABLE
"TRANSPARENT_GOVERNANCE"."GOVERNMENT_OFFICER"
(
  "ID"                NUMBER(*,0),
  "USERNAME"          VARCHAR2(20 BYTE) NOT NULL ENABLE,
  "FIRST_NAME"        VARCHAR2(20 BYTE),
  "LAST_NAME"         VARCHAR2(20 BYTE),
  "EMAIL_ID"          VARCHAR2(30 BYTE),
  "MOBILE_NO"         NUMBER(10,0),
  "PASSWORD"          VARCHAR2(20 BYTE),
  "SALARY"            NUMBER(10,0),
  "CITY"              VARCHAR2(20 BYTE),
  "DEPARTMENT"        VARCHAR2(20 BYTE),
```

```

CONSTRAINT "ID_UQ" UNIQUE ("ID")
USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255
COMPUTE STATISTICS STORAGE(INITIAL 65536 NEXT 1048576
MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0
FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT
FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
TABLESPACE "USERS" ENABLE,

```

```

PRIMARY KEY ("USERNAME") USING INDEX PCTFREE 10
INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1
MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1
FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE
DEFAULT CELL_FLASH_CACHE DEFAULT) TABLESPACE
"USERS" ENABLE ) SEGMENT CREATION IMMEDIATE PCTFREE
10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS
LOGGING STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS
1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1
FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE
DEFAULT CELL_FLASH_CACHE DEFAULT) TABLESPACE
"USERS" ;

```

4.1.3. SPEND

```

CREATE                                                    TABLE
"TRANSPARENT_GOVERNANCE"."SPEND"
(
  "DEPARTMENT" VARCHAR2(15 BYTE) NOT NULL ENABLE,
  "SPENTPER"    NUMBER(*,0),
  "MAXSPEND"    NUMBER,
  PRIMARY KEY ("DEPARTMENT")
USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255
COMPUTE STATISTICS
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1
MAXEXTENTS 2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1
BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT
CELL_FLASH_CACHE DEFAULT)
TABLESPACE "SYSTEM" ENABLE
) SEGMENT CREATION IMMEDIATE
PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255
NOCOMPRESS LOGGING
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1
MAXEXTENTS 2147483645

```

```
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1
BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT
CELL_FLASH_CACHE DEFAULT)
TABLESPACE "SYSTEM" ;
```

4.1.4. SPENDING_DETAILS

```
CREATE TABLE
"TRANSPARENT_GOVERNANCE"."SPENDING_DETAILS"
(
  "ID" VARCHAR2(25 BYTE) NOT NULL ENABLE,
  "OFFICER_USERNAME" VARCHAR2(30 BYTE),
  "DEPARTMENT" VARCHAR2(30 BYTE),
  "DESCRIPTION" VARCHAR2(200 BYTE),
  "CITY" VARCHAR2(20 BYTE),
  "AMOUNT" NUMBER(10,0),
  "MONTH" VARCHAR2(2 BYTE),
  "YEAR" VARCHAR2(6 BYTE),
  "DAY" VARCHAR2(20 BYTE),
  "STATE" VARCHAR2(20 BYTE),
  CONSTRAINT "SPENDING_DETAILS_PK" PRIMARY KEY ("ID")
  USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255
  COMPUTE STATISTICS
  STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1
  MAXEXTENTS 2147483645
  PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1
  BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT
  CELL_FLASH_CACHE DEFAULT)
  TABLESPACE "SYSTEM" ENABLE
) SEGMENT CREATION IMMEDIATE
PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255
NOCOMPRESS LOGGING
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1
MAXEXTENTS 2147483645
PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1
BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT
CELL_FLASH_CACHE DEFAULT)
TABLESPACE "SYSTEM" ;
```

4.1.5. TAX

```
CREATE TABLE "TRANSPARENT_GOVERNANCE"."TAX"
(
  "STARTSALARY" NUMBER(10,0),
  "ENDSALARY" NUMBER(10,0),
```

```

        "TAXPER"          NUMBER(*,0)
    )
    SEGMENT CREATION IMMEDIATE
    PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255
    NOCOMPRESS LOGGING
    STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1
    MAXEXTENTS 2147483645
    PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1
    BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT
    CELL_FLASH_CACHE DEFAULT)
    TABLESPACE "SYSTEM" ;

```

4.1.6. TAX_DETAILS

```

CREATE                                                                    TABLE
"TRANSPARENT_GOVERNANCE"."TAX_DETAILS"
(
    "TAX_TYPE"          VARCHAR2(20 BYTE),
    "CITY"              VARCHAR2(20 BYTE),
    "AMOUNT"            NUMBER(*,0),
    "TAX_PAYER_USERNAME" VARCHAR2(20 BYTE),
    "MONTH"             VARCHAR2(20 BYTE),
    "YEAR"              VARCHAR2(20 BYTE) NOT NULL ENABLE,
    "ID"                VARCHAR2(20 BYTE) NOT NULL ENABLE,
    "STATE"             VARCHAR2(20 BYTE),
    "DAY"               VARCHAR2(20 BYTE),
    CONSTRAINT "TAX_DETAILS_PK" PRIMARY KEY ("ID") USING
    INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE
    STATISTICS STORAGE(INITIAL 65536 NEXT 1048576
    MINEXTENTS 1 MAXEXTENTS 2147483645 PCTINCREASE 0
    FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT
    FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)
    TABLESPACE "SYSTEM" ENABLE) SEGMENT CREATION
    IMMEDIATE PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS
    255 NOCOMPRESS LOGGING STORAGE(INITIAL 65536 NEXT
    1048576 MINEXTENTS 1 MAXEXTENTS 2147483645
    PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1
    BUFFER_POOL DEFAULT FLASH_CACHE DEFAULT
    CELL_FLASH_CACHE DEFAULT) TABLESPACE "USERS" ;

```

4.1.7. TAX_PAYER

```

CREATE                                                                    TABLE
"TRANSPARENT_GOVERNANCE"."TAX_PAYER"
(
    "ID"                NUMBER(*,0),

```



```

"USERNAME"      VARCHAR2(20 BYTE) NOT NULL ENABLE,
"FIRST_NAME"    VARCHAR2(20 BYTE),
"LAST_NAME"     VARCHAR2(20 BYTE),
"EMAIL_ID"      VARCHAR2(30 BYTE),
"CITY"          VARCHAR2(20 BYTE),
"PASSWORD"      VARCHAR2(20 BYTE),
"MOBILE_NO"     NUMBER(10,0),
"SALARY"        NUMBER(*,0),
PRIMARY KEY ("USERNAME") USING INDEX PCTFREE 10
INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS
STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1
MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1
FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE
DEFAULT CELL_FLASH_CACHE DEFAULT) TABLESPACE
"USERS" ENABLE) SEGMENT CREATION IMMEDIATE PCTFREE
10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS
LOGGING STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS
1 MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1
FREELIST GROUPS 1 BUFFER_POOL DEFAULT FLASH_CACHE
DEFAULT CELL_FLASH_CACHE DEFAULT) TABLESPACE
"USERS" ;

```

4.2. DATA DICTIONARY

4.2.1. CITY_NAME

	❖ COLUMN_NAME	❖ DATA_TYPE	❖ NULLABLE	DATA_DEFAULT	❖ COLUMN_ID	❖ COMMENTS
1	ID	NUMBER (38,0)	Yes	(null)	1	(null)
2	CITY_NAME	VARCHAR2 (20 BYTE)	Yes	(null)	2	(null)
3	STATE_NAME	VARCHAR2 (20 BYTE)	Yes	(null)	3	(null)

4.2.2. GOVERNMENT_OFFICER

	❖ COLUMN_NAME	❖ DATA_TYPE	❖ NULLABLE	DATA_DEFAULT	❖ COLUMN_ID	❖ COMMENTS
1	ID	NUMBER (38,0)	Yes	(null)	1	(null)
2	USERNAME	VARCHAR2 (20 BYTE)	No	(null)	2	(null)
3	FIRST_NAME	VARCHAR2 (20 BYTE)	Yes	(null)	3	(null)
4	LAST_NAME	VARCHAR2 (20 BYTE)	Yes	(null)	4	(null)
5	EMAIL_ID	VARCHAR2 (30 BYTE)	Yes	(null)	5	(null)
6	MOBILE_NO	NUMBER (10,0)	Yes	(null)	6	(null)
7	PASSWORD	VARCHAR2 (20 BYTE)	Yes	(null)	7	(null)
8	SALARY	NUMBER (10,0)	Yes	(null)	8	(null)
9	CITY	VARCHAR2 (20 BYTE)	Yes	(null)	9	(null)
10	DEPARTMENT	VARCHAR2 (20 BYTE)	Yes	(null)	10	(null)

4.2.3. SPEND

	❖ COLUMN_NAME	❖ DATA_TYPE	❖ NULLABLE	DATA_DEFAULT	❖ COLUMN_ID	❖ COMMENTS
1	DEPARTMENT	VARCHAR2 (15 BYTE)	No	(null)	1	(null)
2	SPENTPER	NUMBER (38,0)	Yes	(null)	2	(null)
3	MAXSPEND	NUMBER	Yes	(null)	3	(null)

4.2.4. SPENDING_DETAILS

	❖ COLUMN_NAME	❖ DATA_TYPE	❖ NULLABLE	DATA_DEFAULT	❖ COLUMN_ID	❖ COMMENTS
1	ID	VARCHAR2 (25 BYTE)	No	(null)	1 (null)	
2	OFFICER_USERNAME	VARCHAR2 (30 BYTE)	Yes	(null)	2 (null)	
3	DEPARTMENT	VARCHAR2 (30 BYTE)	Yes	(null)	3 (null)	
4	DESCRIPTION	VARCHAR2 (200 BYTE)	Yes	(null)	4 (null)	
5	CITY	VARCHAR2 (20 BYTE)	Yes	(null)	5 (null)	
6	AMOUNT	NUMBER (10,0)	Yes	(null)	6 (null)	
7	MONTH	VARCHAR2 (2 BYTE)	Yes	(null)	7 (null)	
8	YEAR	VARCHAR2 (6 BYTE)	Yes	(null)	8 (null)	
9	DAY	VARCHAR2 (20 BYTE)	Yes	(null)	9 (null)	
10	STATE	VARCHAR2 (20 BYTE)	Yes	(null)	10 (null)	

4.2.5. TAX

	❖ COLUMN_NAME	❖ DATA_TYPE	❖ NULLABLE	DATA_DEFAULT	❖ COLUMN_ID	❖ COMMENTS
1	STARTSALARY	NUMBER (10,0)	Yes	(null)	1 (null)	
2	ENDSALARY	NUMBER (10,0)	Yes	(null)	2 (null)	
3	TAXPER	NUMBER (38,0)	Yes	(null)	3 (null)	

4.2.6. TAX_DETAILS

	❖ COLUMN_NAME	❖ DATA_TYPE	❖ NULLABLE	DATA_DEFAULT	❖ COLUMN_ID	❖ COMMENTS
1	TAX_TYPE	VARCHAR2 (20 BYTE)	Yes	(null)	1 (null)	
2	CITY	VARCHAR2 (20 BYTE)	Yes	(null)	2 (null)	
3	AMOUNT	NUMBER (38,0)	Yes	(null)	3 (null)	
4	TAX_PAYER_USERNAME	VARCHAR2 (20 BYTE)	Yes	(null)	4 (null)	
5	MONTH	VARCHAR2 (20 BYTE)	Yes	(null)	5 (null)	
6	YEAR	VARCHAR2 (20 BYTE)	No	(null)	6 (null)	
7	ID	VARCHAR2 (20 BYTE)	No	(null)	7 (null)	
8	STATE	VARCHAR2 (20 BYTE)	Yes	(null)	8 (null)	
9	DAY	VARCHAR2 (20 BYTE)	Yes	(null)	9 (null)	

4.2.7. TAX_PAYERS

	❖ COLUMN_NAME	❖ DATA_TYPE	❖ NULLABLE	DATA_DEFAULT	❖ COLUMN_ID	❖ COMMENTS
1	ID	NUMBER(38,0)	Yes	(null)	1	(null)
2	USERNAME	VARCHAR2(20 BYTE)	No	(null)	2	(null)
3	FIRST_NAME	VARCHAR2(20 BYTE)	Yes	(null)	3	(null)
4	LAST_NAME	VARCHAR2(20 BYTE)	Yes	(null)	4	(null)
5	EMAIL_ID	VARCHAR2(30 BYTE)	Yes	(null)	5	(null)
6	CITY	VARCHAR2(20 BYTE)	Yes	(null)	6	(null)
7	PASSWORD	VARCHAR2(20 BYTE)	Yes	(null)	7	(null)
8	MOBILE_NO	NUMBER(10,0)	Yes	(null)	8	(null)
9	SALARY	NUMBER(38,0)	Yes	(null)	9	(null)

CHAPTER

5. IMPLEMENTATION

We are implementing this system using java technology. We are using oracle database with it. We also use Json object parser. We implement all the web form using JSP and All the implementation using SERVLET.

5.1. VIEW CHART

In home page charts are implemented according different departments, tax type spending money, taxation and comparison of taxation and spending money. To implement this Google API is used. Json Parsing is used. To give data to Google API, we have used JavaScript which call servlet and servlet return json data. This page contain dynamic dropdowns. Here values of dropdown is fetch from Database. When value of this dropdown is changed at that time chart on the home page will change according to that.

5.2. LOGIN AND REGISTRATION

Login and Registration facilities are implemented for Taxpayer and Government Officer. We implemented common login page for both Taxpayer and Government Officer. This is done by the use of radio button. Login done by username or email id and password. When user clicked on “Sign IN” button after entered username and password at that time in backend side user is validated. If user is validated then it will calculate is tax and then in session username, tax will be stored. Additional details such as department and maximum spending amount for government officer will be stored in session.

In login page there is a link for sign up and forgot password.

There are two separate registration for Taxpayer and Government Officer. When user clicked on signup first he has to select radio button. This functionality is implemented by JavaScript. To register any user, Id, First name, Last name, Email ID, City, Mobile No., Salary, Username and Password required.

5.3. FORGOT PASSWORD

We implemented forget password facility using username and mobile no as per user details. First system will validate username and mobile number after that new password is generated and it will stored in database and then user will get new password in message in their mobile number by SMS. For this, we use WAY2SMS API in PHP. Using this password user can login.

5.4. HOME PAGE

On home page there are some details like amount which user have to pay as tax. If user is government officer then the amount that he can spent is displayed. This value is fetch from session.

5.5. CHANGE PASSWORD

We implemented change password facility. Implementation of change password is done by current password and new password and confirm password after login. When user clicked on change password then first it will compare current password with password which is on database. If both are same then system will check weather new password and confirm password are same or not. If both are same then current password will be replaced by new password.

5.6. PAY TAX

User can pay tax by login into system. To calculate tax admin (government) had given percentage for a particular salary range. Process of tax calculation is done when user logged in. To pay tax details such as amount, tax type, city and date is required will required.

5.7. PAYMENT

When user clicked on “pay tax” button page is redirected to payment gateway. Before redirecting amount, tax type, date and city is stored in session, so that if transaction will success then system will able to make record in database. Here INSTAMOZO-API used as gateway. For trial Instamozo provide virtual card and its details is given below.

Card number: 4242-4242-4242-4242

Expiry Date: 01/20

CVV: 111

OTP: 1221

All the transaction message send into instamozo account. All transaction maintain in back end database.

5.8.TAX DISTRIBUTION

When there is a successful transaction of pay tax at that moment tax is distributed among various government department as per percentage of department given by admin.

5.9. SPEND MONEY

All the government officer login into their account and spend money in their department as per requirement of department. To send money details such as department, city, date, amount and description will required. After clicked on “spend money” button, system first of all check amount with maximum spend amount which is stored in session. If it is less than max spend then system will make record of this transaction in database.

5.10. HISTORY

This will display all the transaction done by user in past. To implement this username is required which is stored in session. By use of it system will able to fetch all transaction.

5.11. EXCEPTION HANDLING

When system fetch any details from database then SQLException is used. And to get other exception “Exception” is used.

CHAPTER

6. TEST CASE DESIGN

Testing is a process carried out on software to detect the differences between its behavior and the desired behavior as stipulated by the requirements specifications.

6.1. TESTING PLAN

The testing technique that is going to be used in the project is Black Box Testing. The expected inputs to the system are applied and only the outputs are checked.

6.2. TESTING STRATEGY

The development process repeats this testing sub process a number of times for the following phases.

- Unit Testing
- Integration Testing

Unit Testing tests a unit of code after coding of that unit is completed. Integration Testing tests whether the previous programs that make up a system, interface with each other as desired. System testing ensures that the system meets its stated design specifications. Acceptance testing is testing by users to ascertain whether the system developed is a correct implementation of the software requirements specification. Testing is carried out in such a hierarchical manner so that each component is correct and the assembly/combination of components is correct. We have performed both Unit Testing and System Testing to detect and fix errors.

6.3. TESTING METHODS

We have performed Black-box testing for the testing purpose. A brief description is given below:

Black-box testing is a method of software testing that examines the functionality of an application without peering into its internal structures or workings. This method of test can be applied to virtually every level of software testing: unit, integration, system and acceptance. It typically comprises most if not all higher level testing, but can also dominate unit testing as well.

6.4. TEST CASES

REQ-1.REGISTRATION OF GOVERNMENT OFFICER

1. PRE CONDITION : “KANO” USERNAME ALREADY EXISTS

STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	PASS/ FAIL
1	REDIRECT TO REGISTRATIO N PAGE	USERNAME: KANO FIRSTNAME:SAGAR LAST NAME:PATEL	REGISTRATIO N SUCCESULL.	USERNAME IS ALREADY EXIST.	PASS
2	PROVIDE USER DETAILS	EMAIL ID:SAGARPATEL@GMAIL.COM			
3	CLICK ON REGISTRATIO N BUTTON	MOBILE NO.: 9876544210 CITY:SURAT DEPARTMENT:EDUCATIONAL SALARY:80000 PASSWORD:*****			

2.

STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	PASS/ FAIL
1	REDIRECT TO REGISTRATIO N PAGE	USERNAME: PINTU FIRSTNAME:SAGAR LAST NAME:PATEL	REGISTRATIO N SUCCESULL.	REGISTRATION SUCCESULL.	PASS
2	PROVIDE USER DETAILS	EMAIL ID:SAGARPATEL@GMAIL.COM			
3	CLICK ON REGISTRATIO N BUTTON	MOBILE NO.: 9876544210 CITY:SURAT DEPARTMENT:EDUCATIONAL SALARY:80000 PASSWORD:*****			

REQ-2.LOGIN

1. INVALID USERNAME OR PASSWORD

STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	PASS/ FAIL
1	REDIRECT TO LOGIN PAGE	USERNAME: KANO PASSWORD: ****	LOGIN SUCCESSFUL.	INVALID UERNAME OR PASSWORD	PASS
2	PROVIDE LOGIN DETAILS				
3	CLICK ON LOGIN BUTTON				

2.

STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	PASS/ FAIL
1	REDIRECT TO LOGIN PAGE	USERNAME: KANO PASSWORD: *****	LOGIN SUCCESSFUL.	LOGIN SUCCESSFUL	PASS

2	PROVIDE LOGIN DETAILS				
3	CLICK ON LOGIN BUTTON				

REQ-3.FORGOT PASSWORD:

1.

STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	PASS/ FAIL
1	REDIRECT TO FORGET PASSWORD PAGE	USERNAME: KANO MOBILE NO:9876544210	PASSWORD SEND SUCCESSFUL	INVALID USERNAME OR PASSWORD	PASS
2	PROVIDE USERNAME AND MOBILE NO				
3	CLICK APPLY BUTTON				

2.

STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	PASS/ FAIL
1	REDIRECT TO FORGET PASSWORD PAGE	USERNAME:K ANO MOBILE NO:9876543210	PASSWORD SEND SUCCESSFUL	PASSWORD SEND SUCCESSFUL AND LOGIN WITH NEW PASSWORD	PASS
2	PROVIDE USERNAME AND MOBILE NO				
3	CLICK APPLY BUTTON				

3. CHANGE PASSSSWORD

3.1.

STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	PASS/ FAIL
1	REDIRECT TO CHANGE PASSWORD PAGE	CURRENT PASSWORD: ***** NEW PASSWORD: *****	CHANGE PASSWORD SUCCESSFUL	INVALID CURRENT PASSWORD	PASS
2	PROVIDE NEW DETAILS	CONFIRM PASSWORD: *****		NOT MATCH CONFIRM PASSWORD	PASS
3	CLICK ON CHANGE PASSWORD BUTTON				

3.2.

STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	PASS/ FAIL
------	------------	-----------	-----------------	---------------	------------

1	REDIRECT TO CHANGE PASSWORD PAGE	CURRENT PASSWORD: ***** NEW PASSWORD: *****	CHANGE PASSWORD SUCCESSFUL	CHANGE PASSWORD SUCCESSFUL	PASS
2	PROVIDE NEW DETAILS	CONFIRM PASSWORD: *****			
3	CLICK ON CHANGE PASSWORD BUTTON				

REQ-4.SPEND MONEY

1. PRE CONDITION: GOVERNMENT OFFICER LOGIN SUCCESSFUL\

STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	PASS/ FAIL
1	REDIRECT TO SPENDMONEY PAGE	DEPARTMET: EDUCATION	SPEND SUCCESSFUL.	INVALID AMOUNT	PASS
2	PROVIDE SPEND DETAILS	AMOUNT: 100000 CITY:SURAT DATE: 25/08/2016		INVALID DEPARTMENT.	PASS
3	CLICK ON SPEND BUTTON				

2.

STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	PASS/ FAIL
1	REDIRECT TO SPENDMONEY PAGE	DEPARTMET: EDUCATION	SPEND SUCCESSFUL.	SPEND SUCCESSUL	PASS
2	PROVIDE SPEND DETAILS	AMOUNT: 100000 CITY:SURAT DATE: 25/08/2016			
3	CLICK ON SPEND BUTTON				

REQ-5.TAX PAYER REGISTRATION

1. PRECONDITION: USERNAME BHOLU ALREADY EXISTS

STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	PASS/ FAIL
1	REDIRECT TO REGISTRATION PAGE	USERNAME: BHOLU FIRSTNAME: SNEH LASTNAME: PATEL	REGISTRATION SUCCESULL.	USERNAME IS ALREADY EXIST.	PASS
2	PROVIDE USER DETAILS	EMAIL ID:SNEHPATEL@GMAIL.COM			
3	CLICK ON REGISTARTION BUTTON	MOBILE NO.: 9876544210 CITY:SURAT SALARY:80000 PASSWORD:*****			

2. PRECONDITION : USERNAME DOES NOT EXISTS

STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	PASS/ FAIL
1	REDIRECT TO REGISTRATION PAGE	USERNAME: BHOLU FIRSTNAME:S NEH LAST NAME:PATEL	REGISTRATION SUCCESULL.	REGISTRATION SUCCESSFUL.	PASS
2	PROVIDE USER DETAILS	EMAIL ID:SNEHPATEL@GMAIL.COM			
3	CLICK ON REGISTARTION BUTTON	MOBILE NO.: 9876544210 CITY:SURAT SALARY:80000 PASSWORD:** *****			

REQ-6.VIEW CHART

STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	PASS/ FAIL
1	SELECT CITY		VIEW CHART	VIEW CHART	PASS
2	SELECT STATE				
3	UPDATE BUTTON				

REQ-7.HISTORY NOTE:

STEP	TEST STEPS	TEST DATA	EXPECTED RESULT	ACTUAL RESULT	PASS/ FAIL
1	VIEW TRANSACTION HISTORY		DISPLAY HISTORY	DISPLAY HISTORY	PASS

CHAPTER

7. SCREENSHOTS & CODE

7.1. SIGN IN

Code :

Sign_in.jsp

```
<% @page contentType="text/html" pageEncoding="UTF-8"% >
<!DOCTYPE html>
<html >
  <head>
    <meta charset="UTF-8">
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.1.1/jquery.min.js"></script>
    <title>Sign in : Transparence Governance</title>
    <link rel="stylesheet" href="css/style.css">
```

```

<script type="text/javascript">
    function AlertIt() {
        var answer = confirm("Please select any radio button")
        if (answer)
            window.location = "localhost:8084/sign_in.jsp";
    }
</script>

```

```

<script>
$(document).ready(function () {
    $('input[type=radio][name=chooseone]').change(function () {
        if (this.value === 'Government_Officer') {

            $("#bhindi").attr("href", "/gov_officer_registration.jsp");
        } else if (this.value === 'Tax_Payer') {

            $("#bhindi").attr("href", "/tax_payer_registration.jsp");
        }
    });
});

```

```

function getParameterByName(name, url) {
    if (!url) {
        url = window.location.href;
    }
    name = name.replace(/[[]]/g, "\\$&");
    var regex = new RegExp("[?&]" + name + "([^\&#]*)|&#|$)"),
        results = regex.exec(url);
    if (!results)
        return null;
}

```

```

        if (!results[2])
            return "";

        return decodeURIComponent(results[2].replace(/\+/g, " "));
    }

    function check() {
        var foo = getParameterByName('status');
        document.getElementById("status").innerHTML = foo;
    }
</script>
</head>
<body onload="check()">

    <div style='float: right; padding-top: 10px; padding-right: 15px; '>
        <a href = "home.jsp" style="color:white;"><font style="font-
weight:600;">HOME</font></a>
    </div>

    <div class="titl" style="background-color:black;">
        <em>TRANSPARENT GOVERNANCE : TAXATION VS SPENDING</em>
    </div>

    <div class="login">
        <div class="heading">
            <h2>Sign In</h2>
        </div>

        <center> <label id="status" style="font-weight:400;font-size: 20px;color:
black;"></label></center>

        <form action="/transparent_government/SignInServlet" method="post">
            <div style="border-top:1px solid black;">
                <div class="text--center2">
                    <input type="radio" name="chooseone"
value="Government_Officer">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<label for="HTML" class="text-
-center1" style="color:black;font-weight: 400">Government Officer</label><br/>

```



```

768h512V576q0-106-75-181t-181-75-181 75-75 181v192zm832 96v576q0 40-28 68t-68
28H416q-40 0-68-28t-28-68V864q0-40 28-68t68-28h32V576q0-184 132-316t316-132 316
132 132 316v192h32q40 0 68 28t28 68z"/></symbol><symbol id="user" viewBox="0 0
1792 1792"><path d="M1600 1405q0 120-73 189.5t-194 69.5H459q-121 0-194-69.5T192
1405q0-53 3.5-103.5t14-109T236 1084t43-97.5 62-81 85.5-53.5T538 832q9 0 42 21.5t74.5
48 108 48T896 971t133.5-21.5 108-48 74.5-48 42-21.5q61 0 111.5 20t85.5 53.5 62 81 43
97.5 26.5 108.5 14 109 3.5 103.5zm-320-893q0 159-112.5 271.5T896 896 624.5 783.5 512
512t112.5-271.5T896 128t271.5 112.5T1280 512z"/></symbol></svg>

```

```
</body>
```

```
</html>
```

SignInServlet.java

```

public class SignInServlet extends HttpServlet {

    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException, SQLException {

        response.setContentType("text/html;charset=UTF-8");

        Properties prop = new Properties();

        InputStream reader = getServletContext().getResourceAsStream("/WEB-INF/tgb_information.properties");

        //FileReader reader = new FileReader("tgb_information.properties");

        prop.load(reader);

        try (PrintWriter out = response.getWriter()) {

            String s = request.getParameter("chooseone");

            HttpSession session = request.getSession();

            session.setAttribute("choose", s);

            String s1 = request.getParameter("user");

            String s2 = request.getParameter("pwd");

            if (s == null) {

                response.sendRedirect("sign_in.jsp?status=choose any one radio button");

            } else if (s1.matches("") || s2.matches("")) {

                response.sendRedirect("sign_in.jsp?status=username or password must not null");

            }

        }

    }

}

```

```

    } else {

        s = request.getParameter("chooseone");

        if (s.equals("Government_Officer")) {

            try {

                out.print("a");

                Class.forName("oracle.jdbc.OracleDriver");

                Connection con =
DriverManager.getConnection(prop.getProperty("connectionstring"),
prop.getProperty("username"), prop.getProperty("password"));

                String selectSQL = "select * from transparent_governance.government_officer
where username = ?";

                PreparedStatement preparedStatement = con.prepareStatement(selectSQL);
preparedStatement.setString(1, s1);

                ResultSet rs = preparedStatement.executeQuery();

                out.print("b");

                if (rs.next()) {

                    if (rs.getString("password").trim().equals(s2)) {

                        String department = rs.getString("department");

                        int salary = rs.getInt("salary");

                        selectSQL = "select * from transparent_governance.spend where
department = ?";

                        preparedStatement = con.prepareStatement(selectSQL);
preparedStatement.setString(1, department);

                        rs = preparedStatement.executeQuery();

                        if (rs.next()) {

                            int maxspend = rs.getInt("maxspend");

                            session.setAttribute("uname", s1);

                            session.setAttribute("department", department);

                            session.setAttribute("type", "gov");

                            session.setAttribute("budget", maxspend);

                            int tax = 0;

```

```

Statement st1 = con.createStatement();

ResultSet rs1 = st1.executeQuery("select * from
transparent_governance.tax");

while (rs1.next()) {
    out.print("asd");

    int ss = rs1.getInt("startsalary");
    int es = rs1.getInt("endsalary");
    if (salary > ss) {

        if (es < salary) {
            out.print("w");
            int v = 0;
            int tp = rs1.getInt("taxper");
            v = ((int) ((es - ss) * tp / 100));
            tax = tax + v;
        } else {
            out.print("q");
            int v = 0;
            int tp = rs1.getInt("taxper");
            v = ((int) ((salary - ss) * tp / 100));
            tax = tax + v;
        }
    } else {
        break;
    }
}

out.print(tax);

selectSQL = "select sum(amount) as amount from
transparent_governance.tax_details where tax_payer_username = ?";

preparedStatement = con.prepareStatement(selectSQL);
preparedStatement.setString(1, s1);

```

```

rs = preparedStatement.executeQuery();

if (rs.next()) {
    out.print(tax - rs.getInt("amount"));
    session.setAttribute("tax_paid", rs.getInt("amount"));
    session.setAttribute("tax_left", tax - rs.getInt("amount"));
    //out.print(session.getAttribute("tax_paid"));
    //out.print(session.getAttribute("tax_left"));
} else {
    session.setAttribute("tax_paid", 0);
    session.setAttribute("tax_left", tax);
}

session.setAttribute("total_tax1", tax);

response.sendRedirect("gov_home.jsp");
} else {
    response.sendRedirect("gov_home.jsp?status=your departement not
have money to spend");
}
} else {
    response.sendRedirect("sign_in.jsp?status=password incorrect");
}
} else {
    response.sendRedirect("sign_in.jsp?status=username incorrect");
}
} catch (ClassNotFoundException | SQLException e2) {
    out.println(e2.toString());
}

} else if (s.equals("Tax_Payer")) {

```

```

try {
    Class.forName("oracle.jdbc.OracleDriver");

    Connection con =
DriverManager.getConnection(prop.getProperty("connectionstring"),
prop.getProperty("username"), prop.getProperty("password"));

    String selectSQL = "select * from transparent_governance.tax_payer where
username = ?";

    PreparedStatement preparedStatement = con.prepareStatement(selectSQL);
    preparedStatement.setString(1, s1);
    ResultSet rs = preparedStatement.executeQuery();
    if (rs.next()) {
        if (rs.getString("password").equals(s2)) {
            int salary = rs.getInt("salary");
            session.setAttribute("username", s1);
            session.setAttribute("type", "payer");
            int tax = 0;

            Statement st1 = con.createStatement();
            ResultSet rs1 = st1.executeQuery("select * from
transparent_governance.tax");
            while (rs1.next()) {
                out.print("asd");
                int ss = rs1.getInt("startsalary");
                int es = rs1.getInt("endsalary");
                if (salary > ss) {

                    if (es < salary) {

                        int v = 0;
                        int tp = rs1.getInt("taxper");
                        v = ((int) ((es - ss) * tp / 100));
                        tax = tax + v;

```

```

        } else {
            int v = 0;
            int tp = rs1.getInt("taxper");
            v = ((int) ((salary - ss) * tp / 100));
            tax = tax + v;
        }
    } else {
        break;
    }
}

session.setAttribute("total_tax1", tax);

selectSQL = "select sum(amount) as amount from
transparent_governance.tax_details where tax_payer_username = ?";
preparedStatement = con.prepareStatement(selectSQL);
preparedStatement.setString(1, s1);
rs = preparedStatement.executeQuery();
if (rs.next()) {
    session.setAttribute("tax_paid", rs.getInt("amount"));
    session.setAttribute("tax_left", tax - rs.getInt("amount"));
    session.setAttribute("uname", s1);
    response.sendRedirect("payer_home.jsp");
} else {
    session.setAttribute("tax_left", tax);
    session.setAttribute("uname", s1);
    response.sendRedirect("payer_home.jsp");
}
} else {
    response.sendRedirect("sign_in.jsp?status=password incorrect");
}
} else {
    response.sendRedirect("sign_in.jsp?status=username incorrect");
}

```

```
    }

    } catch (ClassNotFoundException | SQLException e2) {
        out.println(e2.toString());
    }
}
}
}
```


7.2. HOME



Code:**Home.jsp**

```

<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>HOME</title>
    <link href="/css/style.css" rel='stylesheet' type='text/css' />
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <script type="application/x-javascript"> addEventListener("load", function() {
setTimeout(hideURLbar, 0); }, false); function hideURLbar(){ window.scrollTo(0,1);
} </script>
    <link
href='http://fonts.googleapis.com/css?family=Lobster|Pacifico:400,700,300|Roboto:4
00,100,100italic,300,300italic,400italic,500italic,500' ' rel='stylesheet' type='text/css'>
    <link
href='http://fonts.googleapis.com/css?family=Raleway:400,100,500,600,700,300'
rel='stylesheet' type='text/css'>
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.1.1/jquery.min.js"></script>
    <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
    <!--Load the AJAX API-->
    <script type="text/javascript"
src="https://www.gstatic.com/charts/loader.js"></script>
    <script type="text/javascript"
src="//ajax.googleapis.com/ajax/libs/jquery/1.10.2/jquery.min.js"></script>

    <script type="text/javascript">
      var city;
      var state;
      var url_part;
      function getParameterByName(name, url) {
        if (!url) {
          url = window.location.href;
        }
        name = name.replace(/[\[\]]/g, "\\$&");
        var regex = new RegExp("[?&]" + name + "(=([^&#]*)|&|#|$)"),
            results = regex.exec(url);
        if (!results)

```

```

        return "nathi";
    if (!results[2])
        return "nathi";
    return decodeURIComponent(results[2].replace(/\+/g, " "));
}
function check() {
    state = getParameterByName('state');
    city = getParameterByName('city');
    url_part = "?state=" + state + "&city=" + city;
}

function check1(newvalue)
{
    if (newvalue === "nathi") {
        document.getElementById("dropdown").disabled = true;
    } else
    {
        document.getElementById("dropdown").disabled = false;
    }
}

// Load the Visualization API and the piechart package.
google.charts.load('current', {'packages': ['corechart']});

// Set a callback to run when the Google Visualization API is loaded.
google.charts.setOnLoadCallback(pieChart);

function pieChart() {
    check();
    var url = "/transparent_government/graphServlet" + url_part;
    var jsonData = $.ajax({
        url: url,
        dataType: "json",
        async: false
    }).responseText;
    if (jsonData !== "") {
        // Create our data table out of JSON data loaded from server.
        var data = new google.visualization.DataTable(jsonData);

        // Instantiate and draw our chart, passing in some options.
        var chart = new
google.visualization.ColumnChart(document.getElementById('chart_div'));
        chart.draw(data, { width: 600, title: "SPEND MONEY", chartArea:
{ width: "600px", height: "600px"}, legend: "right", height: 500});
    }
}

```

```

// Load the Visualization API and the piechart package.
google.charts.load('current', {'packages': ['corechart']});

// Set a callback to run when the Google Visualization API is loaded.
google.charts.setOnLoadCallback(pieChart1);

function pieChart1() {
    check();
    var url = "/transparent_government/taxgraphServlet" + url_part;
    var jsonData = $.ajax({
        url: url,
        dataType: "json",
        async: false
    }).responseText;
    if (jsonData !== "") {
        // Create our data table out of JSON data loaded from server.
        var data1 = new google.visualization.DataTable(jsonData);

        // Instantiate and draw our chart, passing in some options.
        var chart = new
google.visualization.ColumnChart(document.getElementById('tax_div'));
//         var chart = new
google.visualization.PieChart(document.getElementById('tax_div'));
        chart.draw(data1, { width: 600, title: "TAXATION", chartArea: { width:
"550px", height: "550px" }, legend: "right", height: 500 });
    }
}

// Load the Visualization API and the piechart package.
google.charts.load('current', {'packages': ['corechart']});

// Set a callback to run when the Google Visualization API is loaded.
google.charts.setOnLoadCallback(pieChart3);

function pieChart3() {
    check();
    var jsonData = $.ajax({
        url: "/transparent_government/barservlet" + url_part,
        dataType: "json",
        async: false
    }).responseText;

    // Create our data table out of JSON data loaded from server.
    var data2 = new google.visualization.DataTable(jsonData);

    // Instantiate and draw our chart, passing in some options.

```

```

        var chart = new
google.visualization.ColumnChart(document.getElementById("bar_div"));
        chart.draw(data2, {width: 600, title: "Comparision", chartArea: {width:
"550px", height: "550px"}, height: 500});
    }

google.charts.load('current', {'packages': ['corechart']});

// Set a callback to run when the Google Visualization API is loaded.
google.charts.setOnLoadCallback(pieChart4);

function pieChart4() {
    check();
    var jsonData = $.ajax({
        url: "/transparent_government/citytaxation" + url_part,
        dataType: "json",
        async: false
    }).responseText;
    if (jsonData !== "") {
        // Create our data table out of JSON data loaded from server.
        var data2 = new google.visualization.DataTable(jsonData);

        // Instantiate and draw our chart, passing in some options.
        var chart = new
google.visualization.ColumnChart(document.getElementById('citytax'));
        chart.draw(data2, {width: 600, title: "Tax Typewise Taxation",
chartArea: {width: "550px", height: "550px"}, height: 500});
    }
}
google.charts.load('current', {'packages': ['corechart']});

// Set a callback to run when the Google Visualization API is loaded.
google.charts.setOnLoadCallback(pieChart5);

function pieChart5() {
    check();
    var jsonData = $.ajax({
        url: "/transparent_government/cityspend" + url_part,
        dataType: "json",
        async: false
    }).responseText;
    if (jsonData !== "") {
        {
            // Create our data table out of JSON data loaded from server.
            var data2 = new google.visualization.DataTable(jsonData);

            // Instantiate and draw our chart, passing in some options.
            var chart = new
google.visualization.ColumnChart(document.getElementById('cityspend'));

```

```

        chart.draw(data2, { width: 600, title: "Departmentwise spending",
chartArea: { width: "550px", height: "550px"}, height: 500});
    }
}

</script>
<style>
    body{
        background-color: grey;
    }
</style>
</head>
<body style="overflow-wrap: break-word;">
    <div style='float: right; padding-top: 10px; padding-right: 30px; overflow-y:
hidden;' >
        <a href="sign_in.jsp" style="color:white;"><font style="font-
weight:600;">SIGN IN / REGISTER</font></a>
    </div>
    <div class="titl" style="background-color:black; ">
        <em>TRANSPARENT GOVERNANCE : TAXATION VS
SPENDING</em>
    </div>
    <form method="get" action="#" >

        <select id="dropdown1" name="state" onchange="check1(this.value)"
class="form-control" style="width:200px;background-color: white; border-color:
gray; color:black;" placeholder="State">
            <option value="" disabled selected>SELECT STATE</option>
            <option value="nathi">All</option>
        <%
            Properties prop1 = new Properties();
            InputStream reader1 =
getServletContext().getResourceAsStream("/WEB-INF/tgb_information.properties");
            prop1.load(reader1);
            Class.forName("oracle.jdbc.OracleDriver");
            Connection con =
DriverManager.getConnection(prop1.getProperty("connectionstring"),
prop1.getProperty("username"), prop1.getProperty("password"));
            Statement st1 = con.createStatement();
            ResultSet rs1 = st1.executeQuery("select distinct state_name from
transparent_governance.city_name");
            while (rs1.next()) {
                out.print("<option value=\"\" + rs1.getString("state_name") + "\">" +
rs1.getString("state_name") + "</option>");
            }
        %>
    </select>

```

```

        <select id="dropdown" name="city" class="form-control"
style="width:200px;background-color: white; border-color: gray;
color:black;"placeholder="City">
        <option value="" disabled selected>SELECT CITY</option>
        <option value="nathi">All</option>
        <%
            st1 = con.createStatement();
            rs1 = st1.executeQuery("select * from
transparent_governance.city_name");
            while (rs1.next()) {
                out.print("<option value=\"\" + rs1.getString("city_name") + "\">" +
rs1.getString("city_name") + "</option>");
            }
        %>
        </select>
        <button type="submit" class="float" style="width: 200px;height:
30px;">UPDATE</button>
    </form>
    <center>

        <div style="padding-top:40px"></div>
        <div id="bar_div" ></div>

        <div style="padding-top:40px"></div>
        <div id="cityspend" ></div>
        <div style="padding-top:40px"></div>
        <div id="citytax" ></div>
        <div style="padding-top:40px"></div>
        <div id="chart_div" ></div>
        <div style="padding-top:40px"></div>
        <div id="tax_div" ></div>
    </center>
</body>
</html>

```

CitySpend.java

```

public class cityspend extends HttpServlet {
    protected void processRequest(HttpServletRequest request, HttpServletResponse
response)
        throws ServletException, IOException, ClassNotFoundException,
SQLException {
        response.setContentType("text/html;charset=UTF-8");
        Properties prop = new Properties();
        InputStream reader = getServletContext().getResourceAsStream("/WEB-
INF/tgb_information.properties");
        //FileReader reader = new FileReader("tgb_information.properties");

```

```

prop.load(reader);
try (PrintWriter out = response.getWriter()) {
    /* TODO output your page here. You may use following sample code. */
    Class.forName("oracle.jdbc.OracleDriver");
    Connection con = null;
    try {
        con = DriverManager.getConnection(prop.getProperty("connectionstring"),
prop.getProperty("username"), prop.getProperty("password"));
        String city = request.getParameter("city");
        String state = request.getParameter("state");
        if ("nathi".equals(state) && "nathi".equals(city)) {
            String sqlstring = " select department,SUM(AMOUNT) AS
TOTAL_TAX_CITY from transparent_governance.spending_details group by
department";
            PreparedStatement st = con.prepareStatement(sqlstring);
            ResultSet rs = st.executeQuery();

            out.print("{\n"
                + "  \"cols\": [\n"
                + "    {\"id\": \"\", \"label\": \"\" + \"Department\" +
\"\", \"type\": \"string\"},\n"
                + "    {\"id\": \"\", \"label\": \"Rupees\", \"type\": \"number\"}\n"
                + "  ],\n"
                + "  \"rows\": [\n");
            while (rs.next()) {
                out.print("{ \"c\": [{ \"v\": \"\" }]; //Mushrooms
                out.print(rs.getString("department"));
                out.print(", \"f\": null }, { \"v\": \"\" } //3
                out.print(rs.getInt("TOTAL_TAX_CITY"));
                out.print(", \"f\": null } ] },\n");
            }
            out.print("  ]\n"
                + "}");
        } else if (!"nathi".equals(city)) {
            String sqlstring = " select department,SUM(AMOUNT) AS
TOTAL_TAX_CITY from transparent_governance.spending_details where city = ?
groyp by department";
            PreparedStatement st = con.prepareStatement(sqlstring);
            st.setString(1, city);
            ResultSet rs = st.executeQuery();

            out.print("{\n"
                + "  \"cols\": [\n"
                + "    {\"id\": \"\", \"label\": \"\" + \"Department\" +
\"\", \"type\": \"string\"},\n"
                + "    {\"id\": \"\", \"label\": \"Rupees\", \"type\": \"number\"}\n"
                + "  ],\n"
                + "  \"rows\": [\n");

```



```

        while (rs.next()) {
            out.print("{\"c\":[" + "\"v\": \"" + //Mushrooms
            out.print(rs.getString("department"));
            out.print("\",\"f\":null},{\"v\": \"" + //3
            out.print(rs.getInt("TOTAL_TAX_CITY"));
            out.print("\",\"f\":null}]]\", \"n\");
        }
        out.print("    ]\n"
            + "}");

    } else if ("nathi".equals(city) || !"nathi".equals(state)) {
        String sqlstring = " select department,SUM(AMOUNT) AS
TOTAL_TAX_CITY from transparent_governance.spending_details where state = ?
group by department";
        PreparedStatement st = con.prepareStatement(sqlstring);
        st.setString(1, state);
        ResultSet rs = st.executeQuery();












        out.print("{\n"
            + "    \"cols\": [\n"
            + "        {\"id\": \"\", \"label\": \"\" + "Department" +
"\", \"type\": \"string\"},\n"
            + "        {\"id\": \"\", \"label\": \"Rupees\", \"type\": \"number\"}\n"
            + "    ],\n"
            + "    \"rows\": [\n"
            + "        while (rs.next()) {
            out.print("{\"c\":[" + "\"v\": \"" + //Mushrooms
            out.print(rs.getString("department"));
            out.print("\",\"f\":null},{\"v\": \"" + //3
            out.print(rs.getInt("TOTAL_TAX_CITY"));
            out.print("\",\"f\":null}]]\", \"n\");
        }
        out.print("    ]\n"
            + "}");
    }
} catch (Exception e) {
    //out.println(e);
    //response.sendRedirect("/home.jsp");
}
}
}

```

7.3.SIGN UP











TRANSPARENT GOVERNANCE : TAXATION VS SPENDING HOME

Registration form

	Id
	First Name
	Last Name
	Email Address
	Select your City ▾
	Mobile Number
	Salary
	Select your department ▾
	User Name
	Password
	Confirm Password
Registration	

TRANSPARENT GOVERNANCE : TAXATION AND SPENDING HOME

Registration form

	Id
	First Name
	Last Name
	Email Address
	Select your City ▾
	Mobile Number
	Salary
	User Name
	Password
	Confirm Password
Registration	

Code:**Gov officer registration.jsp**

```

<html>

<head>

    <title>GOV-OFFICER REGISTRATION</title>

    <!--<link href="css/registration.css" rel='stylesheet' type='text/css' />--%>

    <link rel="stylesheet" href="css/style.css">

    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">

    <meta name="viewport" content="width=device-width, initial-scale=1">

    <script type="application/x-javascript"> addEventListener("load", function() {
setTimeout(hideURLbar, 0); }, false); function hideURLbar() { window.scrollTo(0,1); }
</script>

    <!--webfonts-->

    <link
href='http://fonts.googleapis.com/css?family=Lobster|Pacifico:400,700,300|Roboto:400,100,
100italic,300,300italic,400italic,500italic,500' rel='stylesheet' type='text/css'>

    <link href='http://fonts.googleapis.com/css?family=Raleway:400,100,500,600,700,300'
rel='stylesheet' type='text/css'>

    <!--webfonts-->

</head>

<script>

function getParameterByName(name, url) {

    if (!url) {

        url = window.location.href;

    }

    name = name.replace(/[\\]/g, "\\$&");

    var regex = new RegExp("[?&]" + name + "(=([^&#]*)|&|#|$)"),

        results = regex.exec(url);

    if (!results)

        return null;

```

```

    if (!results[2])
        return "";
    return decodeURIComponent(results[2].replace(/\+/g, " "));
}
function check() {
    var foo = getParameterByName('status');
    document.getElementById("status").innerHTML = foo;
}
</script>
<body onload="check()">
    <div style='float: right; padding-top: 10px; padding-right: 15px; '>
        <a href="home.jsp" style="color:white;"><font style="font-
weight:600;">HOME</font></a>
    </div>
    <div class="titl" style="background-color:black;">
        <em>TRANSPARENT GOVERNANCE : TAXATION VS SPENDING</em>
    </div>
    <div class="login">
        <div class="heading">
            <h2>Registration form</h2>
        </div>
        <center> <label id="status" style="font-weight:400;font-size: 20px;color:
black;"></label></center>
        <form action="/transparent_government/GovRegisterServlet" method="post">
            <div class="heading">
                <div class="input-group input-group-lg">
                    <span class="input-group-addon"><i style="color:black;" class="fa fa-id-
badge"></i></span>
                    <input type="number" class="form-control" name="id" placeholder="Id" >
                </div>
                <div class="input-group input-group-lg">

```

```

        <span class="input-group-addon"><i style="color:black;" class="fa fa-
user"></i></span>
        <input type="text" class="form-control" name="fnm" placeholder="First
Name">
    </div>
    <div class="input-group input-group-lg">
        <span class="input-group-addon"><i style="color:black;" class="fa fa-
user"></i></span>
        <input type="text" name="lnm" class="form-control" placeholder="Last
Name" >
    </div>
    <div class="input-group input-group-lg">
        <span class="input-group-addon"><i style="color:black;" class="fa fa-
envelope-o"></i></span>
        <input type="text" class="form-control" name="eid" placeholder="Email
Address" >
    </div>
    <div class="input-group input-group-lg">
        <span class="input-group-addon"><i style="color:black;" class="fa fa-
user"></i></span>
        <select id="dropdown" name="dep" style="background-color: gray; border-
color: gray; color:black;" class="form-control" placeholder="department">
            <option value="" disabled selected>Select your City</option>
        <%
            Properties prop = new Properties();
            InputStream reader = getServletContext().getResourceAsStream("/WEB-
INF/tgb_information.properties");
            //FileReader reader = new FileReader("tgb_information.properties");
            prop.load(reader);
            Class.forName("oracle.jdbc.OracleDriver");
            Connection con =
DriverManager.getConnection(prop.getProperty("connectionstring"),
prop.getProperty("username"), prop.getProperty("password"));
            Statement st1 = con.createStatement();

```

```

        ResultSet rs1 = st1.executeQuery("select * from
transparent_governance.city_name");
        while (rs1.next()) {
            out.print("<option
value=\""+rs1.getString("city_name")+"\">" + rs1.getString("city_name") + "</option>");}
            %>
        </select>
    </div>

    <div class="input-group input-group-lg">
        <span class="input-group-addon"><i style="color:black;" class="fa fa-
mobile"></i></span>
        <input type="number" name="mno" class="form-control"
placeholder="Mobile Number" >
    </div>

    <div class="input-group input-group-lg">
        <span class="input-group-addon"><i style="color:black;" class="fa fa-
money"></i></span>
        <input type="number" class="form-control" name="salary"
placeholder="Salary" >
    </div>

    <div class="input-group input-group-lg">
        <span class="input-group-addon"><i style="color:black;" class="fa fa-caret-
square-o-down"></i></span>
        <select id="dropdown" name="dep" style="background-color: gray; border-
color: gray; color:black; " class="form-control" placeholder="department">
            <option style="color: black;" value="" disabled selected>Select your
department</option>
            <%
                rs1 = st1.executeQuery("select * from transparent_governance.spend");
                while (rs1.next()) {
                    out.print("<option
value=\""+rs1.getString("department")+"\">" + rs1.getString("department") + "</option>");}
                    %>
                </select>

```

```

        </div>

        <div class="input-group input-group-lg">
            <span class="input-group-addon"><i style="color:black;" class="fa fa-
user"></i></span>
            <input type="text" name="unm" class="form-control" placeholder="User
Name" >
        </div>

        <div class="input-group input-group-lg">
            <span class="input-group-addon"><i style="color:black;" class="fa fa-
lock"></i></span>
            <input type="password" name="pwd" style="color:black; "
placeholder="Password" class="form-control" >
        </div>

        <div class="input-group input-group-lg">
            <span class="input-group-addon"><i style="color:black;" class="fa fa-
lock"></i></span>
            <input type="password" name="repwd" placeholder="Confirm Password"
class="form-control" >
        </div>

        <button type="submit" class="float">Registration</button>
    </div>
</form>
</div>
</body>
</html>

```

GovRegisterServlet.java

```

protected void processRequest(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    Properties prop = new Properties();

```

```

InputStream reader = getServletContext().getResourceAsStream("/WEB-INF/tgb_information.properties");

//FileReader reader = new FileReader("tgb_information.properties");
prop.load(reader);

int i=0;
try (PrintWriter out = response.getWriter()) {
    String n = request.getParameter("unm");
    String p = request.getParameter("pwd");
    String rp = request.getParameter("repwd");
    String e = request.getParameter("eid");
    String l = request.getParameter("lnm");
    String f = request.getParameter("fnm");
    String c = request.getParameter("city");
    String id=request.getParameter("id");
    String s=request.getParameter("salary");
    String m=request.getParameter("mno");
    String d;
    d = request.getParameter("dep");
    //out.println(id+" "+n+" "+f+" "+" "+l+" "+e+" "+c+" "+p+" "+m+" "+s+" "+d);
    try {
        Class.forName("oracle.jdbc.OracleDriver");
        Connection con =
DriverManager.getConnection(prop.getProperty("connectionstring"),prop.getProperty("username"),prop.getProperty("password"));

        PreparedStatement ps;
        ps = con
            .prepareStatement("insert into transparent_governance.government_officer
values(?,?,?,?,?,?,?,?,?)");

        ps.setString(1, id);

```



```

        ps.setString(2, n);
        ps.setString(3, f);
        ps.setString(4, l);
        ps.setString(5, e);
        ps.setString(9, c);
        ps.setString(7, p);
        ps.setString(6, m);
        ps.setString(8, s);
        ps.setString(10, d);
        if(p.equals(rp))
        {
            i = ps.executeUpdate();
        }
        else
        {
            response.sendRedirect("gov_officer_registration.jsp?status=both password not
matched");
        }
        if (i > 0)
            response.sendRedirect("gov_officer_registration.jsp?status=You are successfully
registered");
        }
        catch (ClassNotFoundException | SQLException e2)
        {
            out.println(e2.toString());
        }
    }
}

```

7.4. FORGOT PASSWORD

TRANSPARENT GOVERNANCE : TAXATION VS SPENDING
HOME

Forgot Password

☐ Government Officer
☐ Tax Payer

Username or email

Mobile Number

APPLY

Code:

Forgot_password.jsp

```

<html>
  <head>
    <title>Forgot Password</title>
    <link rel="stylesheet" href="css/style.css">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <script type="application/x-javascript"> addEventListener("load", function() {
setTimeout(hideURLbar, 0); }, false); function hideURLbar(){ window.scrollTo(0,1);
} </script>
    <!--webfonts-->
    <link
href='http://fonts.googleapis.com/css?family=Lobster|Pacifico:400,700,300|Roboto:4
00,100,100italic,300,300italic,400italic,500italic,500' rel='stylesheet' type='text/css'>
    <link
href='http://fonts.googleapis.com/css?family=Raleway:400,100,500,600,700,300'
rel='stylesheet' type='text/css'>
    <!--webfonts-->
  </head>
  <script>
    function getParameterByName(name, url) {
      if (!url) {
        url = window.location.href;
      }
      name = name.replace(/[\/]/g, "\\$&");

```

```

    var regex = new RegExp("[?&]" + name + "=(^[^&#]*)|&#|$",);
    results = regex.exec(url);
    if (!results)
        return null;
    if (!results[2])
        return "";
    return decodeURIComponent(results[2].replace(/\+/g, " "));
}
function check() {
    var foo = getParameterByName('status');
    document.getElementById("status").innerHTML = foo;
}
</script>
<body onload="check()">
    <div style='float: right; padding-top: 10px; padding-right: 15px; '>
        <a href="home.jsp" style="color:white;"><font style="font-
weight:600;">HOME</font></a>
    </div>
    <div class="titl" style="background-color:black;">
        <em>TRANSPARENT GOVERNANCE : TAXATION VS
SPENDING</em>
    </div>

    <div class="login">
        <div class="heading">
            <h2>Forgot Password</h2>
        </div>
        <center> <label id="status" style="font-weight:400;font-size: 20px;color:
black;"></label></center>
        <form action="/transparent_government/ForgetPasswordServlet"
method="post">
            <div style="border-top:1px solid black;">
                <div class="text--center2">
                    <input type="radio" name="chooseone"
value="Government_Officer">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<label for="HTML"
class="text--center1" style="color:black;font-weight: 400">Government
Officer</label><br/>
                    <input type="radio" name="chooseone"
value="Tax_Payer">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;<label for="HTML" class="text--
center1" style="color:black; font-weight: 400">Tax Payer</label><br/>
                </div>
            </div>
            <div class="heading">
                <div class="input-group input-group-lg">
                    <span class="input-group-addon"><i class="fa fa-user"></i></span>
                    <input type="text" class="form-control" name="usr"
placeholder="Username or email">
                </div>

```

```

        <div class="input-group input-group-lg">
            <span class="input-group-addon"><i class="fa fa-lock"></i></span>
            <input type="number" class="form-control" name="mno"
placeholder="Mobile Number">
        </div>
        <button type="submit" class="float">APPLY</button>
    </form>
</div>
</div>
</body>
</html>

```

ForgetPasswordServlet.java

```

public class ForgetPasswordServlet extends HttpServlet {
    protected void processRequest(HttpServletRequest request,
        HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        Properties prop = new Properties();
        InputStream reader = getServletContext().getResourceAsStream("/WEB-
INF/tgb_information.properties");
        //FileReader reader = new FileReader("tgb_information.properties");
        prop.load(reader);
        try (PrintWriter out = response.getWriter()) {
            String s = request.getParameter("chooseone");
            out.println(s);

            if (s.equals("Government_Officer")) {
                try {
                    String s1 = request.getParameter("unm");
                    String s2 = request.getParameter("mno");
                    Class.forName("oracle.jdbc.OracleDriver");
                    Connection con =
DriverManager.getConnection(prop.getProperty("connectionstring"),
prop.getProperty("username"), prop.getProperty("password"));
                    Statement st = con.createStatement();
                    ResultSet rs = st.executeQuery("select * from
transparent_governance.government_officer");
                    while (rs.next()) {
                        String u = rs.getString("username");
                        String e = rs.getString("email_id");
                        String m = rs.getString("mobile_no");
                        if (s1.matches(u.trim()) && s2.matches(m.trim())) {
                            HttpSession session = request.getSession();
                            session.setAttribute("uname", u);
                            session.setAttribute("choose", s);
                            session.setAttribute("mno", m);
                            //out.println("your password is :: bhindi" );

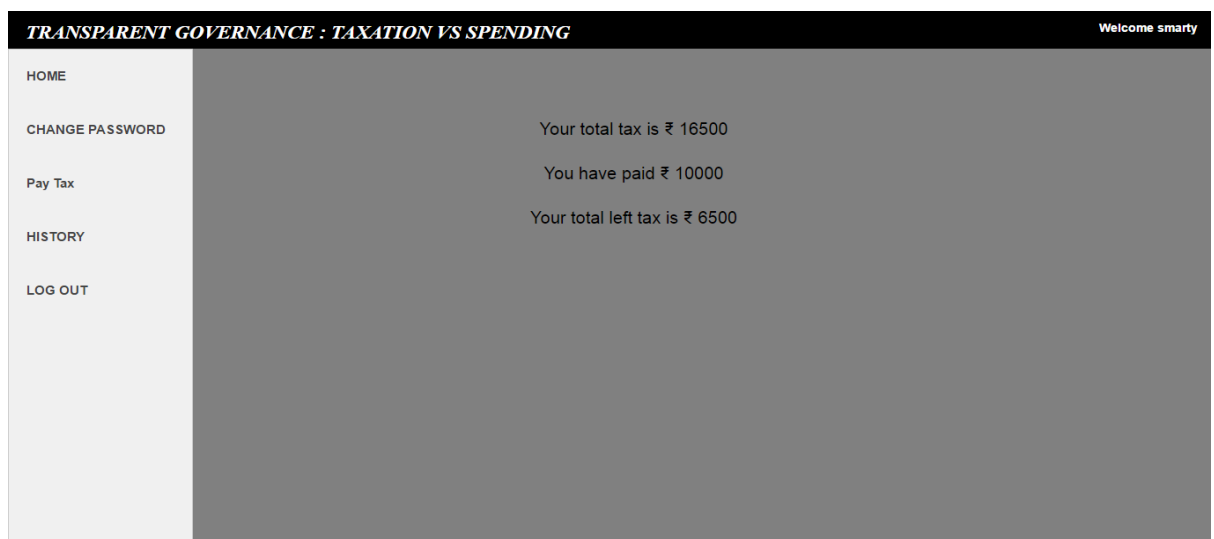
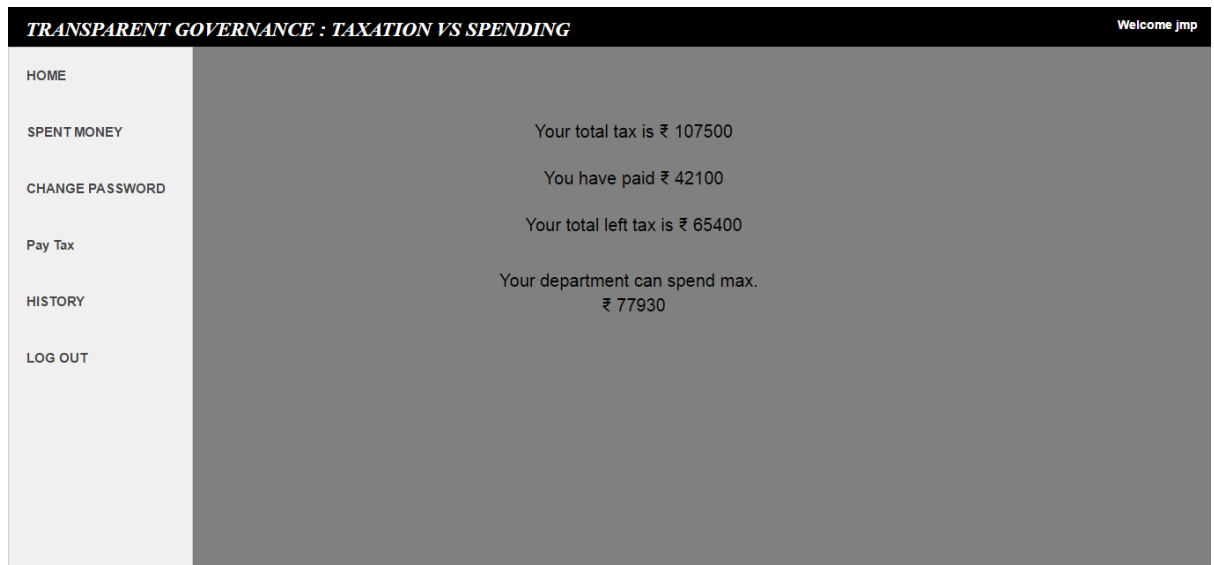
```

```

        // out.println("hello");
        response.sendRedirect("/SmsServlet");
    } else {
        response.sendRedirect("forget_password.jsp?status=invalid
username or password");
    }
}
} catch (ClassNotFoundException | SQLException e2) {
    out.println(e2.toString());
}
}
if (s.equals("Tax_Payer")) {
    try {
        String s1 = request.getParameter("unm");
        String s2 = request.getParameter("mno");
        Class.forName("oracle.jdbc.OracleDriver");
        Connection con =
DriverManager.getConnection(prop.getProperty("connectionstring"),
prop.getProperty("username"), prop.getProperty("password"));
        Statement st = con.createStatement();
        ResultSet rs = st.executeQuery("select * from
transparent_governance.tax_payer");
        while (rs.next()) {
            String u = rs.getString("username");
            String e = rs.getString("email_id");
            String m = rs.getString("mobile_no");
            if (s1.matches(u.trim()) && s2.matches(m.trim())) {
                HttpSession session = request.getSession();
                session.setAttribute("uname", u);
                session.setAttribute("choose", s);
                session.setAttribute("mno", m);
                out.println(m);
                response.sendRedirect("/SmsServlet");
            } else {
                response.sendRedirect("forget_password.jsp?status=invalid
username or password");
            }
        }
    } catch (ClassNotFoundException | SQLException e2) {
        out.println(e2.toString());
    }
}
}
}
}
}

```

7.5. HOME FOR USER



Code:

Gov_home.jsp

```
<html>
```

```
<%
```

```
String s = (String)session.getValue("uname");
```

Transparent Government - Taxation Vs. Spending

```

        if(s==null){
            response.sendRedirect("sign_in.jsp?status=please login first");
        }
    %>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>HOME</title>
    <link href="/css/header.css" rel='stylesheet' type='text/css' />
    <link href="/css/style.css" rel='stylesheet' type='text/css' />
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <script type="application/x-javascript"> addEventListener("load", function() {
    setTimeout(hideURLbar, 0); }, false); function hideURLbar(){ window.scrollTo(0,1); }
    </script>
    <link
href='http://fonts.googleapis.com/css?family=Lobster|Pacifico:400,700,300|Roboto:400,100,
100italic,300,300italic,400italic,500italic,500' rel='stylesheet' type='text/css'>
    <link href='http://fonts.googleapis.com/css?family=Raleway:400,100,500,600,700,300'
rel='stylesheet' type='text/css'>
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">
</head>
<script>
function getParameterByName(name, url) {
    if (!url) {
        url = window.location.href;
    }
    name = name.replace(/[\[\]]/g, "\\$&");
    var regex = new RegExp("[?&]" + name + "(=([^\&#]*)|&|#|$)"),
        results = regex.exec(url);
    if (!results)
        return null;
    if (!results[2])

```

```

        return "";

        return decodeURIComponent(results[2].replace(/\+/g, " "));
    }

    function check() {
        var foo = getParameterByName('status');
        document.getElementById("status").innerHTML = foo;
    }
</script>

<body>

    <div style='float: right; padding-top: 10px; padding-right: 15px; '>
        <font style="font-weight:600;color:white;">Welcome
    <%=session.getAttribute("uname")%></font>
    </div>

    <div class="titl" style="background-color:black;">
        <em>TRANSPARENT GOVERNANCE : TAXATION VS SPENDING</em>
    </div>

    <div class="header-cont">
        <div class="header">
            <ul class="side-nav" style="list-style: none;">
                <li><a href="gov_home.jsp">HOME</a></li>
                <li>
                    <a href="spent_money.jsp" id="focusmeplease">SPENT MONEY</a>
                </li>
                <li>
                    <a href="change_password.jsp">CHANGE PASSWORD</a>
                </li>
                <li>
                    <a href="pay_tax.jsp">Pay Tax</a>
                </li>
                <li>
                    <a href="histroy.jsp" >HISTORY</a>

```



```

        </li>

        <li>

            <a href="logout.jsp">LOG OUT</a>

        </li>

    </ul>

</div>

</div>

<div style="padding-top:40px"></div>

<div class="login" style="padding-left: 70px;">

    <center> <label id="status" style="font-weight:400;font-size: 20px;color:
black;">Your total tax is &#x20b9; <%=session.getAttribute("total_tax1")
%></label></center><br>

    <center> <label id="status" style="font-weight:400;font-size: 20px;color: black;">You
have paid &#x20b9; <%=session.getAttribute("tax_paid") %></label></center><br>

    <center> <label id="status" style="font-weight:400;font-size: 20px;color:
black;">Your total left tax is &#x20b9; <%=session.getAttribute("tax_left")
%></label></center><br>

    <div style="padding-top:10px"></div>

    <center> <label id="status" style="font-weight:400;font-size: 20px;color:
black;">Your department can spend max. &nbsp; &#x20b9;
<%=session.getAttribute("budget") %></label></center><br>

</div>

</body>

</html>

```

7.6. CHANGE PASSWORD

Code:

Change_password.jsp

```
<html>
<%
    String s = (String) session.getValue("uname");
    if (s == null) {
        response.sendRedirect("sign_in.jsp?status=please login first");
    }
%>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>Change Password</title>
```

```

<link href="/css/header.css" rel='stylesheet' type='text/css' />
<link href="/css/style.css" rel='stylesheet' type='text/css' />
<meta name="viewport" content="width=device-width, initial-scale=1">
<script type="application/x-javascript"> addEventListener("load", function() {
setTimeout(hideURLbar, 0); }, false); function hideURLbar(){ window.scrollTo(0,1);
} </script>
<link
href='http://fonts.googleapis.com/css?family=Lobster|Pacifico:400,700,300|Roboto:4
00,100,100italic,300,300italic,400italic,500italic,500' ' rel='stylesheet' type='text/css'>
<link
href='http://fonts.googleapis.com/css?family=Raleway:400,100,500,600,700,300'
rel='stylesheet' type='text/css'>
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">

</head>
<script>
document.getElementById('focusmeplease').focus();
a:active{
color:blue;
}
var fname = document.getElementById("AMOUNT").value;
function check() {

if (fname < <%session.getAttribute("budget"); %>)
{

} else
{
document.getElementById("status").innerHTML = "You can maximum
spend " + <%session.getAttribute("budget");%>;
//this.parentNode.insertBefore(warningSpan, this.nextSibling);
}
}
</script>
<script>
function getParameterByName(name, url) {
if (!url) {
url = window.location.href;
}
name = name.replace(/[[]]/g, "\\$&");
var regex = new RegExp("[?&]" + name + "(=([^&#]*)|&|#|$)"),
results = regex.exec(url);
if (!results)
return null;
if (!results[2])
return "";
return decodeURIComponent(results[2].replace(/\+/g, " "));

```

```

    }
    function check() {
        var foo = getParameterByName('status');
        document.getElementById("status").innerHTML = foo;
    }
</script>
<body onload="check()">
    <div style='float: right; padding-top: 10px; padding-right: 15px; '>
        <font style="font-weight:600;color:white;">Welcome
<%=session.getAttribute("uname")%></font>
    </div>
    <div class="titl" style="background-color:black;">
        <em>TRANSPARENT GOVERNANCE : TAXATION VS
SPENDING</em>
    </div>
    <div class="header-cont">
        <div class="header">
            <ul class="side-nav" style="list-style: none;">

                <% if (session.getAttribute("type") != "payer") {
                    out.print("<li>");
                    out.print("<a href=\"gov_home.jsp\"
id=\"focusmeplease\">HOME</a>");
                    out.print("</li>");
                    out.print("<li>");
                    out.print("<a href=\"spent_money.jsp\"
id=\"focusmeplease\">SPENT MONEY</a>");
                    out.print("</li>");
                } else {
                    out.print("<li>");
                    out.print("<a href=\"payer_home.jsp\"
id=\"focusmeplease\">HOME</a>");
                    out.print("</li>");

                }
                %>
            <li>
                <a href="change_password.jsp">CHANGE PASSWORD</a>
            </li>
            <li>
                <a href="pay_tax.jsp">Pay Tax</a>
            </li>
            <li>
                <a href="histroy.jsp" >HISTORY</a>
            </li>
            <li>
                <a href="logout.jsp">LOG OUT</a>
            </li>

```

```

        </ul>
    </div>
</div>
<div style="padding-top:40px"></div>
<div class="login" style="padding-left: 70px;">
    <div class="heading">
        <h2 style="font-size: 2em">Change password</h2>
    </div>
    <center> <label id="status" style="font-weight:400;font-size: 20px;color:
black;"></label></center>
    <form action="/transparent_government/ChangePasswordServlet"
method="post">

        <div class="input-group input-group-lg">
            <span class="input-group-addon"><i class="fa fa-lock"></i></span>
            <input type="password" class="form-control" name="cp"
placeholder="Current Password">
        </div>
        <div class="input-group input-group-lg">
            <span class="input-group-addon"><i class="fa fa-lock"></i></span>
            <input type="password" class="form-control" name="np"
placeholder="New Password">
        </div>
        <div class="input-group input-group-lg">
            <span class="input-group-addon"><i class="fa fa-lock"></i></span>
            <input type="password" class="form-control" name="cnp"
placeholder="Confirm Password">
        </div>

        <button type="submit" class="float">Apply</button>
    </form>
</div>
</body>
</html>

```

ChangePasswordServlet.java

```

public class ChangePasswordServlet extends HttpServlet {

    protected void processRequest(HttpServletRequest request, HttpServletResponse
response)
        throws ServletException, IOException, ClassNotFoundException,
SQLException {
        response.setContentType("text/html;charset=UTF-8");
        Properties prop = new Properties();
        try (PrintWriter out = response.getWriter()) {
            HttpSession session = request.getSession(false);
            String c = (String) session.getAttribute("type");

```

```

String n = (String) session.getAttribute("uname");
String s1 = request.getParameter("cp");
String s2 = request.getParameter("np");
String s3 = request.getParameter("cnp");
out.println(c);
out.print(s2 + s3);
/* TODO output your page here. You may use following sample code. */
if (c == "gov") {
    if (s2.trim() == s3.trim()) {

        InputStream reader = getServletContext().getResourceAsStream("/WEB-INF/tgb_information.properties");
        //FileReader reader = new FileReader("tgb_information.properties");
        prop.load(reader);

        Class.forName("oracle.jdbc.OracleDriver");
        Connection conn =
        DriverManager.getConnection(prop.getProperty("connectionstring"),
        prop.getProperty("username"), prop.getProperty("password"));

        PreparedStatement ps = conn
        .prepareStatement("update
transparent_governance.Government_Officer set password=? where username=? and
password=?");
        ps.setString(1, s2);
        ps.setString(2, n);
        ps.setString(3, s1);
        int i = ps.executeUpdate();
        if (i > 0) {
            response.sendRedirect("change_password.jsp?status=successfully
changed");
        } else {
            response.sendRedirect("change_password.jsp?status=error occured");
        }
        } else {
            response.sendRedirect("change_password.jsp?status=confirm password
does not match");
        }
        } else if ("payer".equals(c)) {
            if (s2.equals(s3)) {
                InputStream reader = getServletContext().getResourceAsStream("/WEB-INF/tgb_information.properties");
                //FileReader reader = new FileReader("tgb_information.properties");
                prop.load(reader);

                Class.forName("oracle.jdbc.OracleDriver");

```

```

        Connection conn =
DriverManager.getConnection(prop.getProperty("connectionstring"),
prop.getProperty("username"), prop.getProperty("password"));
        PreparedStatement ps = conn
        .prepareStatement("update transparent_governance.Tax_Payer set
password=? where username=? and password=?");
        ps.setString(1, s2);
        ps.setString(2, n);
        ps.setString(3, s1);
        int i = ps.executeUpdate();
        if (i > 0) {
            response.sendRedirect("change_password.jsp?status=successfully
changed");
        } else {
            response.sendRedirect("change_password.jsp?status=error occured");
        }
        } else {
            response.sendRedirect("change_password.jsp?status=confirm password
does not match");
        }
    } else {
        response.sendRedirect("change_password.jsp?status=type does not
match");
    }
}
}
}
}

```

7.7. SPENT MONEY

TRANSPARENT GOVERNANCE : TAXATION AND SPENDING
Welcome jmp

HOME
SPENT MONEY
CHANGE PASSWORD
Pay Tax
HISTORY
LOG OUT

Spent Money
Your department can max. ₹ 77780

Description
Select your City
Amount
DD/MM/YYYY

Spend

Code:**Spent money.jsp**

```

<html>
  <head>
    <%
      String s = (String)session.getValue("uname");
      if(s==null){
        response.sendRedirect("sign_in.jsp?status=please login first");
      }
    %>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>SPEND MONEY</title>
    <link href="/css/header.css" rel='stylesheet' type='text/css' />
    <link href="/css/style.css" rel='stylesheet' type='text/css' />
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <script type="application/x-javascript"> addEventListener("load", function() {
      setTimeout(hideURLbar, 0); }, false); function hideURLbar(){ window.scrollTo(0,1);
    } </script>
    <link
      href='http://fonts.googleapis.com/css?family=Lobster|Pacifico:400,700,300|Roboto:4
      00,100,100italic,300,300italic,400italic,500italic,500' ' rel='stylesheet' type='text/css'>
    <link
      href='http://fonts.googleapis.com/css?family=Raleway:400,100,500,600,700,300'
      rel='stylesheet' type='text/css'>
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
      awesome/4.7.0/css/font-awesome.min.css">

  </head>

  <script>
    function getParameterByName(name, url) {
      if (!url) {
        url = window.location.href;
      }
      name = name.replace(/[\/]/g, "\\$&");
      var regex = new RegExp("[?&]" + name + "(=([^&#]*)|&#|$)"),
        results = regex.exec(url);
      if (!results)
        return null;
      if (!results[2])
        return "";
      return decodeURIComponent(results[2].replace(/\+/g, " "));
    }
    function check() {
      var foo = getParameterByName('status');
      document.getElementById("status").innerHTML = foo;
    }
  </script>

```



```

    }
</script>
<body>
    <div style='float: right; padding-top: 10px; padding-right: 15px; '>
        <font style="font-weight:600;color:white;">Welcome
        <%=session.getAttribute("uname")%></font>
    </div>
    <div class="titl" style="background-color:black;">
        <em>TRANSPARENT GOVERNANCE : TAXATION VS
        SPENDING</em>
    </div>
    <div class="header-cont">
        <div class="header">
            <ul class="side-nav" style="list-style: none;">
                <li><a href="gov_home.jsp">HOME</a></li>
                <li>
                    <a href="spent_money.jsp" id="focusmeplease">SPENT
                    MONEY</a>
                </li>
                <li>
                    <a href="change_password.jsp">CHANGE PASSWORD</a>
                </li>
                <li>
                    <a href="pay_tax.jsp">Pay Tax</a>
                </li>
                <li>
                    <a href="histroy.jsp" >HISTORY</a>
                </li>
                <li>
                    <a href="logout.jsp">LOG OUT</a>
                </li>
            </ul>
        </div>
    </div>
    <div style="padding-top:40px"></div>
    <div class="login" style="padding-left: 70px;">
        <div class="heading">
            <h2>Spent Money</h2>
        </div>
        <center> <label id="status" style="font-weight:400;font-size: 20px;color:
        black;">Your department can max. &#x20b9; <%=session.getAttribute("budget")
        %></label></center>
        <form action="/transparent_government/SpentMoneyServlet"
        method="post">
            <div class="heading">

                <div class="input-group input-group-lg">
                    <span class="input-group-addon"><i class="fa fa-user"></i></span>

```

```

        <input type="text" class="form-control" name="des"
placeholder="Description">
    </div>

    <div class="input-group input-group-lg">
        <span class="input-group-addon"><i style="color:black;" class="fa fa-
user"></i></span>
        <select id="dropdown" name="city" style="background-color: gray;
border-color: gray; color:black;" class="form-control" placeholder="department">
            <option value="" style="color:black;" disabled selected>Select your
City</option>
        <%

            Properties prop = new Properties();
            InputStream reader =
getServletContext().getResourceAsStream("/WEB-INF/tgb_information.properties");
            //FileReader reader = new
FileReader("tgb_information.properties");
            prop.load(reader);
            Class.forName("oracle.jdbc.OracleDriver");
            Connection con =
DriverManager.getConnection(prop.getProperty("connectionstring"),
prop.getProperty("username"), prop.getProperty("password"));
            Statement st1 = con.createStatement();
            ResultSet rs1 = st1.executeQuery("select * from
transparent_governance.city_name");
            while (rs1.next()) {
                out.print("<option value=\"\" + rs1.getString("city_name") +
\"\">\" + rs1.getString("city_name") + "</option>");
            }
        <%>
    </select>
</div>
    <div class="input-group input-group-lg">
        <span class="input-group-addon"><i class="fa fa-
money"></i></span>
        <input type="number" class="form-control" name="amt"
placeholder="Amount" >
    </div>
    <div class="input-group input-group-lg">
        <span class="input-group-addon"><i class="fa fa-
calendar"></i></span>
        <input type="text" class="form-control" name="date"
placeholder="DD/MM/YYYY">
    </div>
    <button type="submit" class="float">Spend</button>
</div>
</form>

```

```

</div>
</body>
</html>

```

SpentMoneyServlet.java

```

public class SpentMoneyServlet extends HttpServlet {

    int budget = 0;

    protected void processRequest(HttpServletRequest request,
    HttpServletResponse response)
        throws ServletException, IOException, ClassNotFoundException,
    SQLException {
        response.setContentType("text/html;charset=UTF-8");
        Properties prop = new Properties();
        InputStream reader = getServletContext().getResourceAsStream("/WEB-
    INF/tgb_information.properties");
        //FileReader reader = new FileReader("tgb_information.properties");
        prop.load(reader);
        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code. */
            HttpSession session = request.getSession(false);
            String a = request.getParameter("amt");
            int amount = Integer.valueOf(a);
            out.print(amount);
            out.println("<br>");

            out.print(Integer.valueOf(session.getAttribute("budget").toString()));
            if (amount < Integer.valueOf(session.getAttribute("budget").toString())) {
                String ds = request.getParameter("des");
                String c = request.getParameter("city");
                String d = request.getParameter("date");
                String[] array = d.split("/");
                DateTimeFormatter dtf =
    DateTimeFormatter.ofPattern("yyyy/MM/dd");
                LocalDate localDate = LocalDate.now();
                char[] chars =
    "abcdefghijklmnopqrstuvwxyzQWERTYUIOPASDFGHJKLZXCVBNM".toCha
    rArray();
                StringBuilder sb = new StringBuilder();
                Random random = new Random();
                for (int i = 0; i < 5; i++) {
                    char v = chars[random.nextInt(chars.length)];
                    sb.append(v);
                }
                String output = sb.toString();
                String id = output + dtf.format(localDate);
            }
        }
    }
}

```

```

try {
    Class.forName("oracle.jdbc.OracleDriver");
    Connection con =
DriverManager.getConnection(prop.getProperty("connectionstring"),
prop.getProperty("username"), prop.getProperty("password"));
    PreparedStatement ps = con.prepareStatement("select state_name
from transparent_governance.city_name where city_name=?");
    ps.setString(1, c);
    String state1 = null;
    ResultSet rs1 = ps.executeQuery();

    if (rs1.next()) {
        state1 = rs1.getString("state_name");
    }

    String sqlString = "insert into
transparent_governance.spending_details values(?,?,?,?,?,?,?,?)";
    PreparedStatement st = con.prepareStatement(sqlString);

    st.setString(1, id);
    st.setString(2, (String) session.getAttribute("uname"));
    st.setString(3, (String) session.getAttribute("department"));
    st.setString(4, ds);
    st.setString(5, c);

    st.setInt(6, amount);
    st.setString(7, array[1]);
    st.setString(8, array[2]);

    st.setString(9, array[0]);

    st.setString(10, state1);
    out.print("kjdfgnjefkgfd");
    int i = st.executeUpdate();

    sqlString = "select * from transparent_governance.spend where
department = ?";
    st = con.prepareStatement(sqlString);
    st.setString(1, (String) session.getAttribute("department"));
    ResultSet rs = st.executeQuery();

    if (rs.next()) {

        int amount1 = rs.getInt("maxspend");
        if (amount > amount1) {
            session.setAttribute("budget", amount1);

```

```

        response.sendRedirect("status_page.jsp?status=entered amount
greater than approved amount");
    }
    else
    {
        amount1 = amount1 - amount;
        st = con.prepareStatement("update
transparent_governance.spend set maxspend=? where department=?");
        st.setInt(1, amount1);
        st.setString(2, (String) session.getAttribute("department"));

        st.executeUpdate();
        out.print(id);
        session.setAttribute("budget",amount1);
        response.sendRedirect("status_page.jsp?status=money
successfully spend and transaction id ==>"+id);
    }

}

} catch (ClassNotFoundException | SQLException e2) {
    out.println(e2.toString());
}
} else {
    //out.print("skjfdsbf");
    response.sendRedirect("status_page.jsp?status=entered amount greater
than approved amount");
}

}

}
}

```

7.8. PAY TAX

TRANSPARENT GOVERNANCE : TAXATION AND SPENDING
Welcome smarty

HOME
CHANGE PASSWORD
Pay Tax
HISTORY
LOG OUT

Pay Tax

Your left tax is ₹ 16500

business

10000

mumbai

02/06/2016

Pay

TRANSPARENT GOVERNANCE : TAXATION AND SPENDING
Welcome jmp

HOME
SPENT MONEY
CHANGE PASSWORD
Pay Tax
HISTORY
LOG OUT

Pay Tax

Your left tax is ₹ 75300

Select TAX TYPE

Amount

Select your City





DD/MM/YYYY

Pay

Select a Payment Method

TEST CARD

NET BANKING

Powered by  instamojo

Test Card

Change

Card Number

VISA

Name

MM / YY CVV CVV

Checkout Rs. 1,000

By purchasing, you agree to our Terms & Privacy

Powered by instamojo

MasterCard SecureCode - Payer Authentication - Google Chrome

Secure | https://apijuspay.in/vbv/mc_secure

MasterCard SecureCode

HDFC BANK

Enter your password
Please enter your MasterCard SecureCode in the field below to confirm your identity for this purchase. This information is not shared with the merchant.

Merchant Name: testing_instamojo
Date: 06 Apr 2017
Total Charge: INR 100000
Card Number: 4242-XXXXXXX-4242
Personal Message: We Understand Your World

Name:
Password:
(forgot password? [Click Here](#))

This page will automatically timeout after 180 seconds.

Windows

File Explorer

Google Chrome

Word

PDF Reader

WhatsApp

Telegram

10:48 PM

06-Apr-17

TRANSPARENT GOVERNANCE : TAXATION VS SPENDING

Welcome smarty

HOME

CHANGE PASSWORD

Pay Tax

HISTORY

LOG OUT

PAYMENT SUCCESSFULLY

DONE YOUR TRANSACTION ID

=> cnpf12017/05/02

Code:**Paytax.jsp**

```

<html>
  <head>
    <%
      String s = (String)session.getValue("uname");
      if(s==null){
        response.sendRedirect("sign_in.jsp?status=please login first");
      }
    %>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>Pay Tax</title>
    <link href="/css/header.css" rel='stylesheet' type='text/css' />
    <link href="/css/style.css" rel='stylesheet' type='text/css' />
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <script type="application/x-javascript"> addEventListener("load", function() {
      setTimeout(hideURLbar, 0); }, false); function hideURLbar(){ window.scrollTo(0,1); }
    </script>
    <link
      href='http://fonts.googleapis.com/css?family=Lobster|Pacifico:400,700,300|Roboto:400,100,
      100italic,300,300italic,400italic,500italic,500' rel='stylesheet' type='text/css'>
    <link href='http://fonts.googleapis.com/css?family=Raleway:400,100,500,600,700,300'
      rel='stylesheet' type='text/css'>
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
      awesome/4.7.0/css/font-awesome.min.css">

  </head>

  <body>
    <div style='float: right; padding-top: 10px; padding-right: 15px; '>
      <font style="font-weight:600;color:white;">Welcome
    <%=session.getAttribute("uname")%></font>
    </div>
    <div class="titl" style="background-color:black;">
      <em>TRANSPARENT GOVERNANCE : TAXATION VS SPENDING</em>
    </div>
    <div class="header-cont">
      <div class="header">
        <ul class="side-nav" style="list-style: none;">

          <% if (session.getAttribute("type") != "payer") {
            out.print("<li>");
            out.print("<a href='\"gov_home.jsp\""
            id=\"focusmeplease\">HOME</a>");
            out.print("</li>");
            out.print("<li>");

```



```

        out.print("<a href=\"spent_money.jsp\" id=\"focusmeplease\">SPENT
MONEY</a>");
        out.print("</li>");
    }
    else{
        out.print("<li>");
        out.print("<a href=\"payer_home.jsp\"
id=\"focusmeplease\">HOME</a>");
        out.print("</li>");

    }
    %>
</li>
    <a href="change_password.jsp">CHANGE PASSWORD</a>
</li>
</li>
    <a href="pay_tax.jsp">Pay Tax</a>
</li>
</li>
    <a href="histroy.jsp" >HISTORY</a>
</li>
</li>
    <a href="logout.jsp">LOG OUT</a>
</li>
</ul>
</div>
</div>
<div style="padding-top:40px"></div>
<div class="login" style="padding-left: 70px;">
    <div class="heading">
        <h2>Pay Tax</h2>
    </div>
    <center>    <label id="status" style="font-weight:400;font-size: 20px;color:
black;">Your left tax is  &#x20b9; <%=session.getAttribute("tax_left")%></label></center>
    <form action="/transparent_government/PayTaxServlet" method="post">
        <div class="heading">
            <div class="input-group input-group-lg">
                <span class="input-group-addon"><i style="color:black;" class="fa fa-
user"></i></span>
                <select id="dropdown" name="ttype" style="background-color: gray; border-
color: gray; color:black;" class="form-control" placeholder="tax type">
                    <option value="" style="color:black;" disabled selected>Select TAX
TYPE</option>
                    <option value="individual">individual</option>
                    <option value="business">business</option>
                </select>
            </div>
            <div class="input-group input-group-lg">
                <span class="input-group-addon"><i class="fa fa-money"></i></span>

```

```

        <input type="number" class="form-control" name="amt"
placeholder="Amount" >
    </div>
    <div class="input-group input-group-lg">
        <span class="input-group-addon"><i style="color:black;" class="fa fa-
user"></i></span>
        <select id="dropdown" name="city" style="background-color: gray; border-
color: gray; color:black;" class="form-control" placeholder="department">

            <option value="" disabled selected>Select your City</option>
        <%

            Properties prop = new Properties();
            InputStream reader = getServletContext().getResourceAsStream("/WEB-
INF/tgb_information.properties");
            //FileReader reader = new FileReader("tgb_information.properties");
            prop.load(reader);
            Class.forName("oracle.jdbc.OracleDriver");
            Connection con =
            DriverManager.getConnection(prop.getProperty("connectionstring"),
            prop.getProperty("username"), prop.getProperty("password"));
            Statement st1 = con.createStatement();
            ResultSet rs1 = st1.executeQuery("select * from
transparent_governance.city_name");
            while (rs1.next()) {
                out.print("<option value=\"\" + rs1.getString(\"city_name\") + \"\>\" +
rs1.getString(\"city_name\") + \"</option>\"");
            }
        <%>
    </select>
</div>
<div class="input-group input-group-lg">
    <span class="input-group-addon"><i class="fa fa-calendar"></i></span>
    <input type="text" class="form-control" name="date"
placeholder="DD/MM/YYYY">
</div>
<button type="submit" class="float">Pay</button>

</div>
</form>
</div>
</body>
</html>

```

PAYMENT DONE.jsp

```

<html>
<head>
<%
    String s = (String)session.getValue("uname");

```

```

        if(s==null){
            response.sendRedirect("sign_in.jsp?status=please login first");
        }
    %>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>PAYMENT DONE</title>
    <link href="/css/header.css" rel='stylesheet' type='text/css' />
    <link href="/css/style.css" rel='stylesheet' type='text/css' />
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <script type="application/x-javascript"> addEventListener("load", function() {
setTimeout(hideURLbar, 0); }, false); function hideURLbar(){ window.scrollTo(0,1); }
</script>
    <link
href='http://fonts.googleapis.com/css?family=Lobster|Pacifico:400,700,300|Roboto:400,100,
100italic,300,300italic,400italic,500italic,500' ' rel='stylesheet' type='text/css'>
    <link href='http://fonts.googleapis.com/css?family=Raleway:400,100,500,600,700,300'
rel='stylesheet' type='text/css'>
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">

</head>
<script>
function getParameterByName(name, url) {
    if (!url) {
        url = window.location.href;
    }
    name = name.replace(/[\[\]]/g, "\\$&");
    var regex = new RegExp("[?&]" + name + "(=([^&#]*)|&#|$)"),
        results = regex.exec(url);
    if (!results)
        return null;
    if (!results[2])
        return "";
    return decodeURIComponent(results[2].replace(/\+/g, " "));
}
function check() {
    var foo = getParameterByName('status');
    document.getElementById("status").innerHTML = foo;
}
</script>
<body onload="check()">
    <div style='float: right; padding-top: 10px; padding-right: 15px; '>
        <font style="font-weight:600;color:white;">Welcome
<%=session.getAttribute("uname")%></font>
    </div>
    <div class="titl" style="background-color:black;">
        <em>TRANSPARENT GOVERNANCE : TAXATION VS SPENDING</em>
    </div>
    <div class="header-cont">
        <div class="header">

```

```

<ul class="side-nav" style="list-style: none;">
    <% if (session.getAttribute("type") != "payer") {
        out.print("<li>");
        out.print("<a
id=\"focusmeplease\">HOME</a>");
        out.print("</li>");
        out.print("<li>");
        out.print("<a href=\"spent_money.jsp\" id=\"focusmeplease\">SPENT
MONEY</a>");
        out.print("</li>");
    }
    else {
        out.print("<li>");
        out.print("<a
id=\"focusmeplease\">HOME</a>");
        out.print("</li>");
    }
    %>
</li>
    <a href="change_password.jsp">CHANGE PASSWORD</a>
</li>
</li>
    <a href="pay_tax.jsp">Pay Tax</a>
</li>
</li>
    <a href="histroy.jsp" >HISTORY</a>
</li>
</li>
    <a href="logout.jsp">LOG OUT</a>
</li>
</ul>
</div>
</div>
<div style="padding-top:40px"></div>
<div class="login" style="padding-left: 70px;">

    <center>
        <label style="font-weight:400;font-size: 20px;color: black;">PAYMENT
SUCCESSFULLY DONE
        YOUR TRANSACTION ID => <%= (String)
request.getParameter("transaction_id")%>
    </label>
</center>
</div>
</body>
</html>

```

PAYTAXSERVLET.java

```

public class PayTaxServlet extends HttpServlet {

    public static int i = 0;

    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException, SQLException, ClassNotFoundException,
        ConnectionException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            // out.println("TODO output your page here. You may use following sample code. ");
            HttpSession session = request.getSession(true);
            String n = (String) session.getAttribute("uname");
            String t = request.getParameter("ttype");
            String a = request.getParameter("amt");
            out.println(a);
            String c = request.getParameter("city");
            String d = request.getParameter("date");
            session.setAttribute("ttype", t);
            session.setAttribute("amt", a);
            session.setAttribute("city", c);
            session.setAttribute("date", d);

            PaymentOrder order = new PaymentOrder();
            // out.println("TODO output your page here. You may use following sample code. ");
            order.setName("bhindi");
            order.setEmail("bHINGARADIYAVIVEK@gmail.com");
            order.setPhone("7046926618");
            order.setCurrency("INR");
            order.setAmount(Double.parseDouble(a));
            order.setDescription("This is a test transaction.");
            // out.println("TODO output your page here. You may use following sample code. ");
            order.setRedirectUrl("http://localhost:8084/transparent_government/payment_done");

            char[] chars = "abcdefghijklmnopqrstuvwxyz".toCharArray();
            StringBuilder sb = new StringBuilder();
            Random random = new Random();
            for (int i = 0; i < 5; i++) {
                char v = chars[random.nextInt(chars.length)];
                sb.append(v);
            }
            String output = sb.toString();
            order.setTransactionId(output);
            session.setAttribute("tid", output);
            Instamojo api = null;

            // gets the reference to the instamojo api
            api = InstamojoImpl.getApi("f1RJhnWSVIR2j5QhYddwPxKfifc5cKhr5pHFNdkV",
            "JFLRMO0GwWnQGIOdk28Q6GuUedIU5caxx70AMzWzoQStf9RstR9tzTBetmSrpkSAV9

```

```
Xqv2uK62hncJhE4JTlvxUQaOvfhnzprqplqknYLaFewOEt9dt9tK1ZqEMXWdtx",
"https://test.instamojo.com/v2/", "https://test.instamojo.com/oauth2/token/");
```

```

        boolean isOrderValid = order.validate();
        if (isOrderValid) {
            JSONObject obj = null;
            String link = null;

            try {
                CreatePaymentOrderResponse createPaymentOrderResponse =
api.createNewPaymentOrder(order);

                try {
                    obj = new JSONObject(createPaymentOrderResponse.getJsonResponse());
                } catch (JSONException ex) {
                    Logger.getLogger(PayTaxServlet.class.getName()).log(Level.SEVERE, null,
ex);
                }

                try {
                    link = obj.getJSONObject("payment_options").getString("payment_url");
                } catch (JSONException ex) {
                    Logger.getLogger(PayTaxServlet.class.getName()).log(Level.SEVERE, null,
ex);
                }

                //out.println("TODO output your page here. You may use following sample code.
");

                //String link = order.getResourceUri();
                // print the status of the payment order.
                System.out.println(link);
                response.sendRedirect(link);

                System.out.println(createPaymentOrderResponse.getPaymentOrder().getStatus());
            } catch (InvalidPaymentOrderException e) {

                if (order.isTransactionIdInvalid()) {
                    System.out.println("Transaction id is invalid. This is mostly due to duplicate
transaction id.");
                }
                if (order.isCurrencyInvalid()) {
                    System.out.println("Currency is invalid.");
                }
            } catch (ConnectionException e) {

            }
        } else {
            // inform validation errors to the user.
            if (order.isTransactionIdInvalid()) {
                System.out.println("Transaction id is invalid.");
            }
        }
    }
}

```

```

        if (order.isAmountInvalid()) {
            System.out.println("Amount can not be less than 9.00.");
        }
        if (order.isCurrencyInvalid()) {
            System.out.println("Please provide the currency.");
        }
        if (order.isDescriptionInvalid()) {
            System.out.println("Description can not be greater than 255 characters.");
        }
        if (order.isEmailInvalid()) {
            System.out.println("Please provide valid Email Address.");
        }
        if (order.isNameInvalid()) {
            System.out.println("Name can not be greater than 100 characters.");
        }
        if (order.isPhoneInvalid()) {
            System.out.println("Phone is invalid.");
        }
        if (order.isRedirectUrlInvalid()) {
            System.out.println("Please provide valid Redirect url.");
        }

        if (order.isWebhookInvalid()) {
            System.out.println("Provide a valid webhook url");
        }
    }

    // out.println("</br><a href='/sign_in.jsp'>login page</a>");
}
}
}

```

PAYMENTDONE.java

```

public class payment_done extends HttpServlet {
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException, ConnectionException {
        PrintWriter out = response.getWriter();
        Properties prop = new Properties();
        InputStream reader = getServletContext().getResourceAsStream("/WEB-INF/tgb_information.properties");
        //FileReader reader = new FileReader("tgb_information.properties");
        prop.load(reader);
        try {
            HttpSession session = request.getSession(false);
            if (session != null) {
                Instamojo api = null;
                api =
                InstamojoImpl.getApi("f1RJhnWSVIR2j5QhYddwPxKfifc5cKhr5pHFNdKv",
                "JFLRMO0GwWnQGIOdk28Q6GuUedIU5caxx70AMzWzoQStf9RstR9tzTBetmSrpksAV9

```

```
Xqv2uK62hncJhE4JTlvxUQaOvfhnzprqplqknYLaFewOEt9dt9tK1ZqEMXWdtx",
"https://test.instamojo.com/v2/", "https://test.instamojo.com/oauth2/token/");
```

```

    PaymentOrderDetailsResponse    paymentOrderDetailsResponse    =
api.getPaymentOrderDetailsByTransactionId(request.getParameter("transaction_id"));
    String n = (String) session.getAttribute("uname");
    String t = (String) session.getAttribute("ttype");
    String a = (String) session.getAttribute("amt");
    int as = Integer.valueOf(a);
    String c = (String) session.getAttribute("city");
    String d = (String) session.getAttribute("date");
    DateTimeFormatter dtf = DateTimeFormatter.ofPattern("yyyy/MM/dd");
    LocalDate localDate = LocalDate.now();
    String id = (String) session.getAttribute("tid") + dtf.format(localDate);
    String[] array = d.split("/");

    try {
        Class.forName("oracle.jdbc.OracleDriver");
        Connection    con    =
DriverManager.getConnection(prop.getProperty("connectionstring"),
prop.getProperty("username"), prop.getProperty("password"));
        PreparedStatement ps = con.prepareStatement("select state_name from
transparent_governance.city_name where city_name=?");
        ps.setString(1, c);
        String state = null;
        ResultSet rs = ps.executeQuery();
        if (rs.next()) {
            state = rs.getString("state_name");
        }
        ps = con.prepareStatement("select * from transparent_governance.spend");
        rs = ps.executeQuery();
        int paid_amount = as;
        while (rs.next()) {
            String department = rs.getString("department");
            if (!"other".equals(department)) {
                int percent = rs.getInt("spentper");
                int maxspend = rs.getInt("maxspend");
                int amount = as * percent / 100;
                as = as - amount;
                maxspend = maxspend + amount;
                ps = con.prepareStatement("update transparent_governance.spend set
maxspend=? where department=?");
                ps.setInt(1, maxspend);
                ps.setString(2, department);
                ps.executeUpdate();
            } else {
                int maxspend = rs.getInt("maxspend");
                maxspend = maxspend + as;
                ps = con.prepareStatement("update transparent_governance.spend set
maxspend=? where department=?");

```



```

        ps.setInt(1, maxspend);
        ps.setString(2, department);
        ps.executeUpdate();
    }
}

ps = con
    .prepareStatement("insert    into    transparent_governance.tax_details
values(?,?,?,?,?,?,?,?)");
ps.setString(1, t);
ps.setString(2, c);
ps.setInt(3, paid_amount);
ps.setString(4, n);
ps.setString(5, array[1]);
ps.setString(6, array[2]);
ps.setString(7, id);
ps.setString(8, state);
ps.setString(9, array[0]);
int i = ps.executeUpdate();
if (i > 0) {
    int tax = (int)Integer.valueOf(session.getAttribute("total_tax1").toString());
    int tax_paid = (int)Integer.valueOf(session.getAttribute("tax_paid").toString());
    tax_paid = tax_paid + as;
    session.setAttribute("tax_paid", tax_paid);
    tax_paid = tax - tax_paid;
    session.setAttribute("tax_left", tax_paid);
    response.sendRedirect("payment_done.jsp?transaction_id=" + id);
    // session.invalidate();
}
} catch (ClassNotFoundException | SQLException e2) {
    out.println(e2.toString());
}
} else {
    response.sendRedirect("sign_in?status=login first");
}
} catch (ConnectionException e) {
}
}
}

```

7.9. HISTORY

TRANSPARENT GOVERNANCE : TAXATION VS SPENDING

Welcome jmp

HOME

SPENT MONEY

CHANGE PASSWORD

Pay Tax

HISTORY

LOG OUT

PAID TAX DETAILS

USERNAME	TAX_TYPE	CITY	AMOUNT
jmp	individual	jaipur	100
jmp	individual	delhi	11000
jmp	individual	rajkot	10000
jmp	individual	delhi	11000
jmp	individual	delhi	10000

SPENDING DETAILS

USERNAME	DEPARTMENT	CITY	DESCRIPTION	AMOUNT
jmp	educational	delhi	better education	1000
jmp	educational	rajkot	better education	150000
jmp	educational	gandhinagar	school renovation	13200

Code:

HISTORY.jsp

```

<html>
<head>
<%
    String s = (String) session.getValue("uname");
    if (s == null) {
        response.sendRedirect("sign_in.jsp?status=please login first");
    }
%>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>HISTORY</title>
<link href="/css/header.css" rel='stylesheet' type='text/css' />
<link href="/css/style.css" rel='stylesheet' type='text/css' />
<meta name="viewport" content="width=device-width, initial-scale=1">
<script type="application/x-javascript"> addEventListener("load", function() {
setTimeout(hideURLbar, 0); }, false); function hideURLbar() { window.scrollTo(0,1); }
</script>
<link
href='http://fonts.googleapis.com/css?family=Lobster|Pacifico:400,700,300|Roboto:400,100,
100italic,300,300italic,400italic,500italic,500' ' rel='stylesheet' type='text/css'>
    <link href='http://fonts.googleapis.com/css?family=Raleway:400,100,500,600,700,300'
rel='stylesheet' type='text/css'>
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.min.css">

```

```

</head>
<style>
  th{
    border-width: 3px ;
    background-color: #4CAF50;
    border-color: black;
    color: white;
    border-style: solid;
    height: 60px;
    font-family: "times new roman";
    text-align: center;
    width: 150px;
  }
  td{
    border-width: 3px ;
    border-color: black;
    border-style: solid;
    height: 40px;
    color: black;
    text-align: center;
    width: 150px;
  }
</style>

<body>
  <div style='float: right; padding-top: 10px; padding-right: 15px; '>
    <font style="font-weight:600;color:white;">Welcome
  <%=session.getAttribute("uname")%></font>
  </div>
  <div class="titl" style="background-color:black;">
    <em>TRANSPARENT GOVERNANCE : TAXATION VS SPENDING</em>
  </div>
  <div class="header-cont">
    <div class="header">
      <ul class="side-nav" style="list-style: none;">

        <%
          if (session.getAttribute("type") != "payer") {
            out.print("<li>");
            out.print("<a href='\"gov_home.jsp\"' id='\"focusmeplease\"'>HOME</a>");
            out.print("</li>");
            out.print("<li>");
            out.print("<a href='\"spent_money.jsp\"' id='\"focusmeplease\"'>SPENT
MONEY</a>");
            out.print("</li>");
          } else {
            out.print("<li>");

```



```

        out.print("</tr>");

        } while (rs.next());
        out.print("</table></center>");
    } else {
        out.print("<center><h3>YOU HAVE NOT SPEND ANY TAX
TILL</h3></center>");
    }

}

    %>
</div>
</body>
</html>

```

7.10. TGB_INFORMATION.properties

To change this license header, choose License Headers in Project Properties.
 # To change this template file, choose Tools | Templates
 # and open the template in the editor.
 username=system
 password=SYSTEM
 connectionstring=jdbc:oracle:thin:@localhost:1521:XE [system on SYSTEM]

CHAPTER

8. MISCELLANEOUS

This is the document which describe how to deploy this application on web server.

8.1. SOFTWARE VERSION DEPLOYMENT DESCRIPTION

8.1.1. Basic Requirement

- Azure account
- AWS account
- Internet Connection

8.1.2. Create database on server

To create a database on AWS you must have an instance. To create a database login with root access and follow below steps.

8.1.2.1. Installation of Oracle

Download oracle installation file into instance file system and run following command in command prompt.

```
yum install wget zip unzip -y  
yum update -y
```

Make a new folder and unzip downloaded installer file into new folder. To do this you can use following command.

```
mkdir -p /u01/software
cd /u01/software
```

Copy the Oracle software to the directory.

```
unzip linuxamd64_12102_database_1of2.zip
unzip linuxamd64_12102_database_2of2.zip
cd database
chown -R oracle.oinstall /u01
# su - oracle
$ cd /u01/software/database
$ ./runInstaller -silent -ignoreSysPrereqs -responseFile /tmp/oui12102.rsp
Starting Oracle Universal Installer...
```

```
Checking Temp space: must be greater than 500 MB.  Actual 24071 MB  Passed
Checking swap space: 0 MB available, 150 MB required.  Failed <<<<
```

```
>>> Ignoring required pre-requisite failures. Continuing...
```

```
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2015-04-06_11-35-07AM. Please wait ...[oracle@ip-172-30-2-197 database]$ [WARNING] [INS-13014]
Target environment does not meet some optional requirements.
```

```
CAUSE: Some of the optional prerequisites are not met. See logs for details.
/tmp/OraInstall2015-04-06_11-35-07AM/installActions2015-04-06_11-35-07AM.log
```

```
ACTION: Identify the list of failed prerequisite checks from the log: /tmp/OraInstall2015-04-06_11-35-07AM/installActions2015-04-06_11-35-07AM.log. Then either from the log
file or from installation manual find the appropriate configuration to meet the prerequisites
and fix it manually.
```

```
You can find the log of this install session at:
```

```
/u01/app/oraInventory/logs/installActions2015-04-06_11-35-07AM.log
```

```
The installation of Oracle Database 12c was successful.
```

```
Please check '/u01/app/oraInventory/logs/silentInstall2015-04-06_11-35-07AM.log' for more
details.
```

```
As a root user, execute the following script(s):
```

1. /u01/app/oraInventory/orainstRoot.sh
2. /u01/app/oracle/product/12.1.0.2/db_1/root.sh

```
Successfully Setup Software.
```


Before you start the database creation, start the listener using the following command.

```
[oracle@ip-172-30-0-173 database]$ lsnrctl start
LSNRCTL for Linux: Version 12.1.0.2.0 - Production on 06-APR-2015 11:45:11
Copyright (c) 1991, 2014, Oracle. All rights reserved.

Starting /u01/app/oracle/product/12.1.0.2/db_1/bin/tnslsnr: please wait...
TNSLSNR for Linux: Version 12.1.0.2.0 - Production
Log messages written to /u01/app/oracle/diag/tnslsnr/ip-172-30-2-197/listener/alert/log.xml
Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=ip-172-30-2-197.eu-west-1.compute.internal)(PORT=1521)))

Connecting to (ADDRESS=(PROTOCOL=tcp)(HOST=)(PORT=1521))
STATUS of the LISTENER
-----
Alias                LISTENER
Version              TNSLSNR for Linux: Version 12.1.0.2.0 - Production
Start Date           06-APR-2015 11:45:11
Uptime                0 days 0 hr. 0 min. 0 sec
Trace Level           off
Security              ON: Local OS Authentication
SNMP                  OFF
Listener Log File     /u01/app/oracle/diag/tnslsnr/ip-172-30-2-197/listener/alert/log.xml
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=ip-172-30-2-197.eu-west-1.compute.internal)(PORT=1521)))
The listener supports no services
The command completed successfully
[oracle@ip-172-30-2-197 database]$
```

The database creation should be run in silent mode. The following command creates a container database with a single PDB.

```
[oracle@ip-172-30-2-197 database]$ dbca -silent -createDatabase \
-templateName General_Purpose.dbc \
-gdbName cdb1 -sid cdb1 -responseFile NO_VALUE \
-characterSet AL32UTF8 \
-sysPassword OraPasswd1 \
-systemPassword OraPasswd1 \
-createAsContainerDatabase true \
-numberOfPDBs 1 \
-pdbName pdb1 \
-pdbAdminPassword OraPasswd1 \
-databaseType MULTIPURPOSE \
-automaticMemoryManagement false \
-storageType FS \
-ignorePreReqs
```

You can now connect to the database from the local server.

```
[oracle@ip-172-30-2-197 database]$ sqlplus / as sysdba

SQL*Plus: Release 12.1.0.2.0 Production on Mon Apr 6 05:17:57 2015

Copyright (c) 1982, 2014, Oracle. All rights reserved.

Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options

SQL> SELECT name, open_mode FROM v$pdb;

NAME                                OPEN_MODE
-----
PDB$SEED                            READ ONLY
PDB1                                 READ WRITE

SQL>
```

Remote Connections

With the public endpoint in place, remote connections are now possible. Create the following "tnsnames.ora" entry on a remote PC.

```
aws_pdb1=
  (DESCRIPTION=
    (ADDRESS=
      (PROTOCOL=TCP)
      (HOST=54.229.16.169)
      (PORT=1521)
    )
    (CONNECT_DATA=
      (SERVER=dedicated)
      (SERVICE_NAME=pdb1)
    )
  )
```

Connect to the cloud database.

```
C:\>sqlplus sys@aws_pdb1 as sysdba
```

SQL*Plus: Release 11.2.0.3.0 Production on Mon Apr 6 10:46:33 2015

Copyright (c) 1982, 2011, Oracle. All rights reserved.

Enter password:

Connected to:

Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production

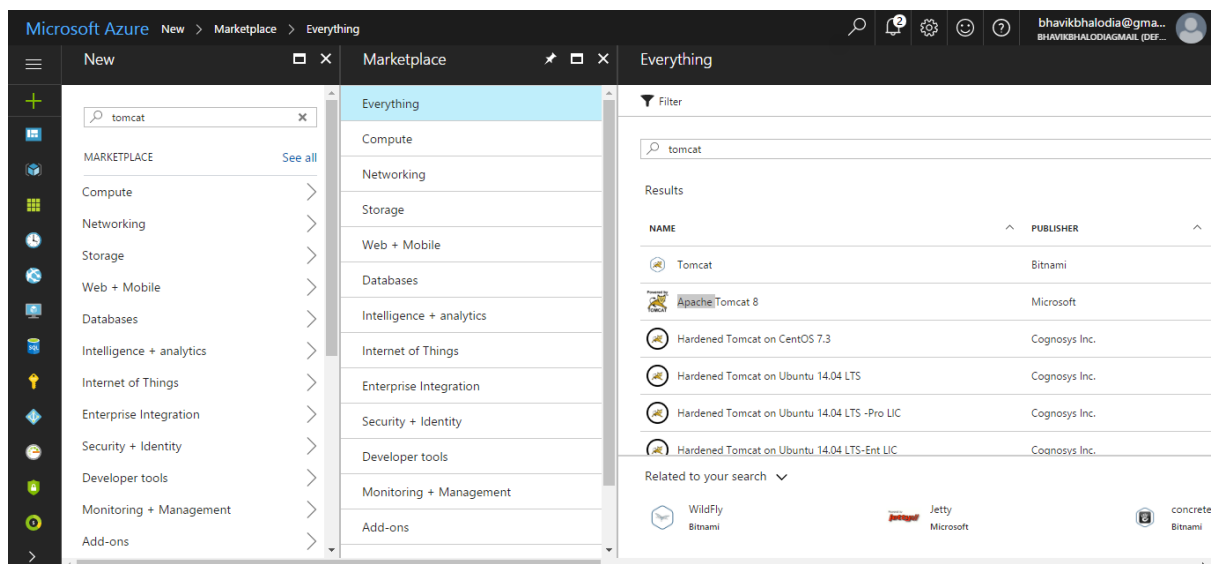
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options

```
sys@cdb1>
```

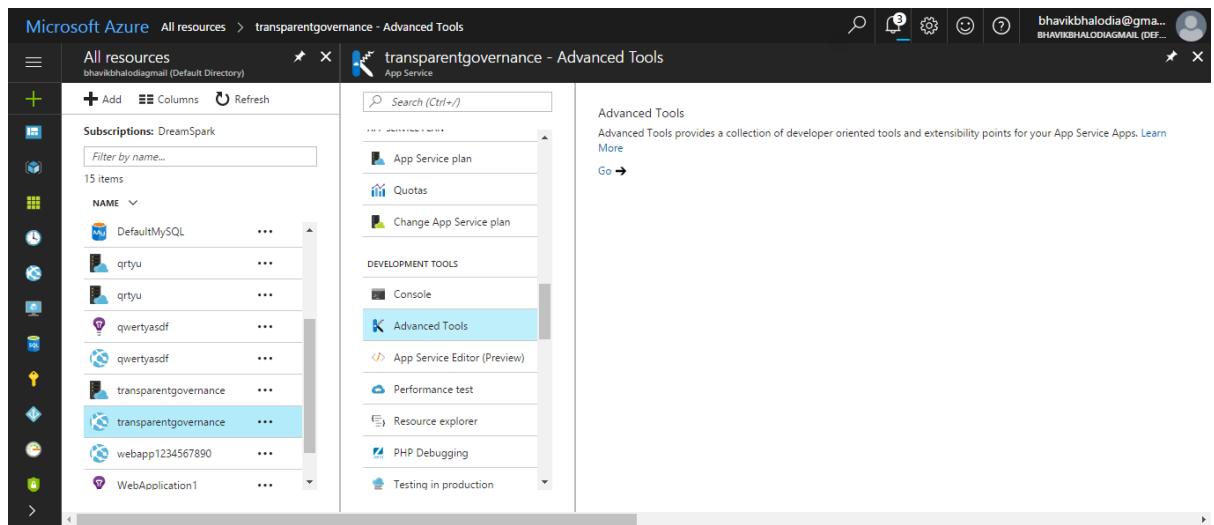
After this run “SQL DDL” script to create table.

8.1.4. Web Application Deployment

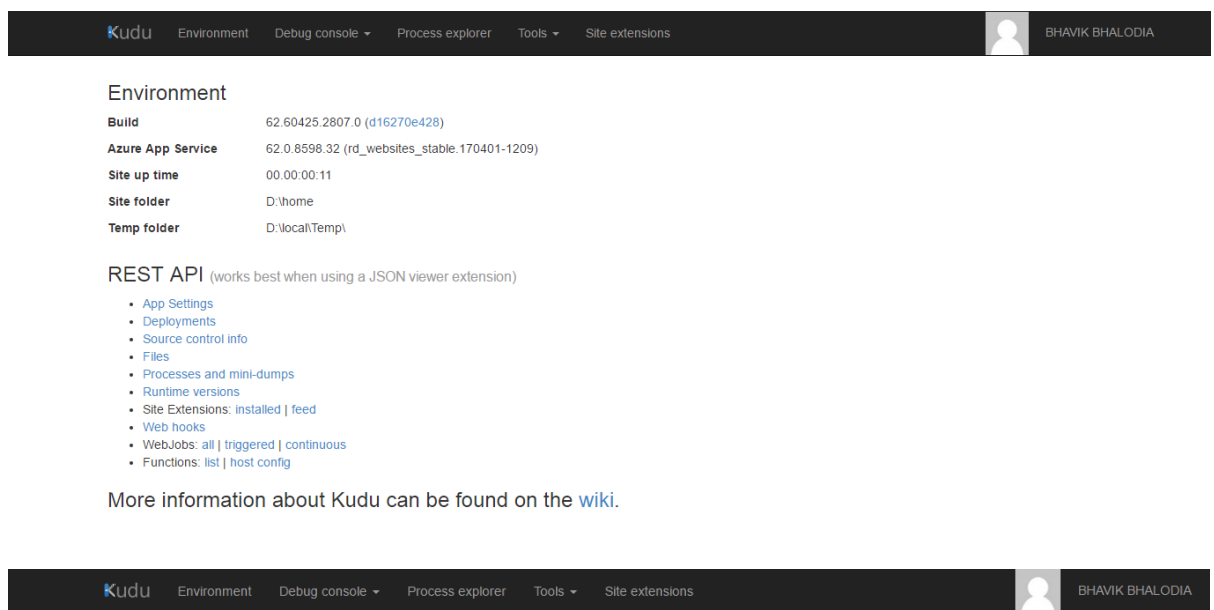
- First of all create new web+mobile application with apache tomcat.



- Now select “advanced tools” from tools after that open link.



- Now select “Digital Console => Power Shell”, so that below window will open.



/ + | 5 items |

	Name	Modified	Size
👤	ssh	4/30/2017, 6:41:06 PM	
👤	data	4/30/2017, 6:50:50 PM	
👤	LogFiles	4/30/2017, 6:44:42 PM	
👤	Microsoft	4/30/2017, 6:41:49 PM	
👤	site	4/30/2017, 6:40:51 PM	



Use old console

Kudu Remote Execution Console
Type 'exit' then hit 'enter' to get a new powershell process.
Type 'cls' to clear the console

PS D:\home>

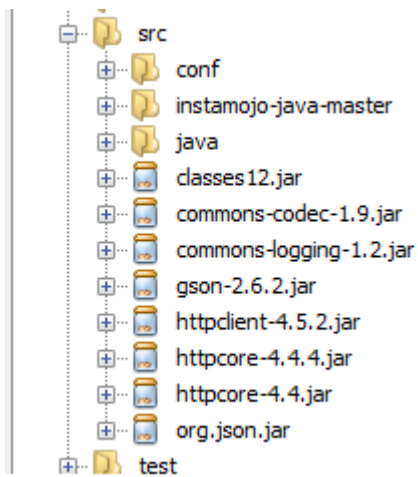
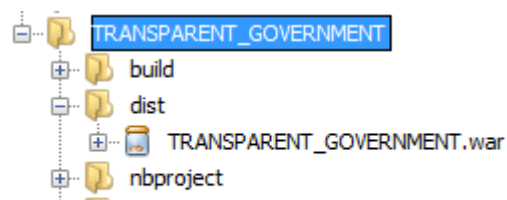
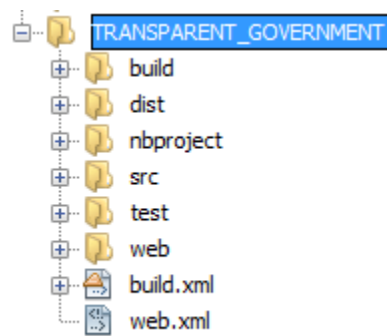
- Select “site/wwwroot/bin/apache-tomcat-8.0.43/webapps/root”
- Now delete all files and folder from this folder then drag and drop war file to this folder.

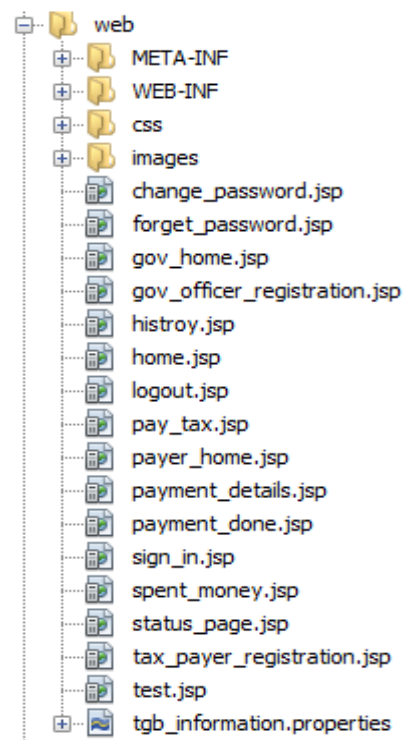
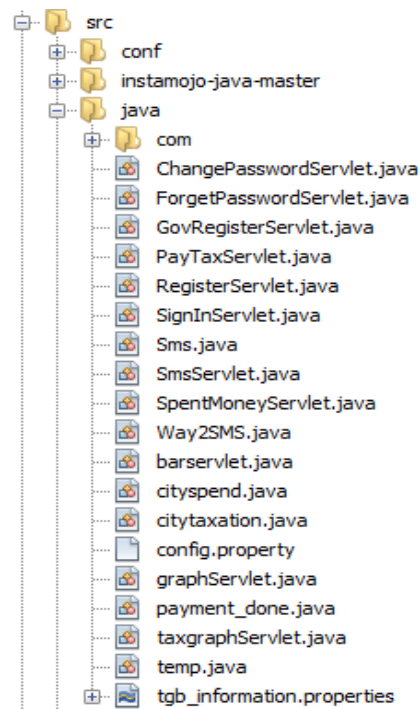
Kudu Environment Debug console Process explorer Tools Site extensions BHAVIK BHALODIA

... / ROOT + 21 items

Name	Modified	Size
css	4/30/2017, 6:51:09 PM	
images	4/30/2017, 6:51:09 PM	
META-INF	4/30/2017, 6:51:07 PM	
WEB-INF	4/30/2017, 6:51:09 PM	
change_password.jsp	4/30/2017, 9:14:38 PM	6 KB
forget_password.jsp	4/30/2017, 9:14:50 PM	4 KB
gov_home.jsp	4/30/2017, 11:27:40 PM	5 KB
gov_officer_registration.jsp	4/30/2017, 9:15:37 PM	8 KB
histroy.jsp	4/30/2017, 11:27:40 PM	9 KB
home.jsp	4/30/2017, 9:17:34 PM	12 KB
logout.jsp	4/30/2017, 11:27:42 PM	1 KB
payer_home.jsp	4/30/2017, 11:27:42 PM	4 KB
payment_details.jsp	4/30/2017, 11:27:42 PM	6 KB
payment_done.jsp	4/30/2017, 11:27:42 PM	5 KB
pay_tax.jsp	4/30/2017, 11:48:22 PM	7 KB
forget_password.jsp	4/30/2017, 9:14:50 PM	4 KB
gov_home.jsp	4/30/2017, 11:27:40 PM	5 KB
gov_officer_registration.jsp	4/30/2017, 9:15:37 PM	8 KB
histroy.jsp	4/30/2017, 11:27:40 PM	9 KB
home.jsp	4/30/2017, 9:17:34 PM	12 KB
logout.jsp	4/30/2017, 11:27:42 PM	1 KB
payer_home.jsp	4/30/2017, 11:27:42 PM	4 KB
payment_details.jsp	4/30/2017, 11:27:42 PM	6 KB
payment_done.jsp	4/30/2017, 11:27:42 PM	5 KB
pay_tax.jsp	4/30/2017, 11:48:22 PM	7 KB

8.2. PROJECT FOLDER STRUCTURE





8.3. WORK DISTRIBUTION

MODULE	OWNER	SUBMODULES
LOGIN	KISHAN	TAX PAYER LOGIN
		GOV. OFFICER LOGIN
REGISTRATION	KSHAN	TAX PAYER REGISTRATION
		GOV. OFFICER REGISTRATION
ADDITION FEATURE(JAVA SCRIPT)	KISHAN	EFFICIENT LESS CODE USE
PASSWORD	KISHAN	CHANGE PASSWORD
		FORGET PASSWORD
SMS	VIVEK	WAY2SMS
TAX PAY	VIVEK	SHOW TAX DETAILS
		STORE TAX DETAILS
		SPLIT TAX MANAGEMENT
TAX CALCULATION	VIVEK/BHAVIK	
PAYMENT	VIVEK	INSTAMOZO API
SPEND MONEY	VIVEK	MANAGE DEPARTMENT
		STORE SPENDING DETAILS
API	BHAVIK	GOOGLE API
CHARTS	BHAVIK	HOME PAGE CHART
		QUERY RELATED CHART
		DEPARTMENT WISE CHARTS
CSS	BHAVIK	ALL DESIGN RELATED STUFF
ALGORITHM	BHAVIK	SPEND MONEY
ADDITIONAL FUNCTIONALITIES	BHAVIK	OPTIMZATION OF CODE
DOCUMENTATION	BHAVIK/VIVEK	

8.4. JSON (JavaScript Object Notation)

JSON (JavaScript Object Notation) is a lightweight data-interchange format. It is easy for humans to read and write. It is easy for machines to parse and generate. It is based on a subset of the JavaScript Programming Language, Standard ECMA-262 3rd Edition - December 1999. JSON is a text format that is completely language independent but uses conventions that are familiar to programmers of the C-family of languages, including C, C++, C#, Java, JavaScript, Perl, Python, and many others. These properties make JSON an ideal data-interchange language.

JSON is built on two structures:

- A collection of name/value pairs. In various languages, this is realized as an object, record, struct, dictionary, hash table, keyed list, or associative array.
- An ordered list of values. In most languages, this is realized as an array, vector, list, or sequence.

These are universal data structures. Virtually all modern programming languages support them in one form or another. It makes sense that a data format that is interchangeable with programming languages also be based on these structures.

In JSON, they take on these forms:

An object is an unordered set of name/value pairs. An object begins with { (left brace) and ends with } (right brace). Each name is followed by : (colon) and the name/value pairs are separated by , (comma).

A string is a sequence of zero or more Unicode characters, wrapped in double quotes, using backslash escapes. A character is represented as a single character string. A string is very much like a C or Java string.

A number is very much like a C or Java number, except that the octal and hexadecimal formats are not used.

Examples:

1. { "name" : "John" }

2. { "employees": [{ "firstName": "John", "lastName": "Doe" },

45

{ "firstName": "Anna", "lastName": "Smith" }, { "firstName": "Peter",
"lastName": "Jones" }] }

The file type for JSON files is ".json"

The MIME type for JSON text is "application/json"

CHAPTER

9. CONCLUTION AND FUTURE EXTENTION

CONCLUSION:

Hereby we declare that, we have performed a project by understanding all the modules of this project. We have checked the feasibility and the requirements of the system. Then we designed the GUI and the flow control roughly on the paper. After this the actual implementation of our modules was started. Initially all the modules were developed separately and lately all were integrated with each other.

Next phase we came across was testing. We tested each module individually and later the whole system. And thus through this system, an organization can easily maintain records of all the users efficiently and can perform various operations easily.

We experienced an enhancement in our Designing and technical skills of programming through the development of this Software.

Limitation:

- The software doesn't point at the errors when the user types the wrong text.
- When there is a problem with internet speed, it might create problem for forget password, chart and payment.
- Here we have used Google API, so that if its server down then it will affect the performance of this project.

FUTURE EXTENSION:

- Add more functionality into this system.
- Also better algorithm for tax calculation.
- Use of Apache Solr for searching functionality, because it is much faster.

CHAPTER

10. BIBLIOGRAPHY

Books:

- Java Complete Reference- 8th Edition by Herbert, published by – McGraw Hill
- Fundamental of Software engineering - 2nd Edition by Rajib Mall, published by – McGraw Hill
- www.StakeOverflow.com
- www.oracle.com/database