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Vellore Institute of Technology

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ITE1003 - Database Management Systems

Project Report

Project Title

Income Tax Management System

Slot : G1

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Abstract

A tax is a mandatory fee or financial charge levied by any government on an individual or an organization to collect revenue for public works providing the best facilities and infrastructure. The collected fund is then used to fund different public expenditure programs. Prompt tax payment and decreased tax evasion is always a primary objective of the government authorities in maximum civilizations that exist nowadays. The problem of tax evasion has demonstrated to be a tough exercise to curb even in countries with a proper database of its citizenry and the current mode of tax fee is redundant and also demanding. It mainly occurs due to the present taxation system present in our country which is not accessible by the clients easily and also don't have a proper database. Some of the challenges governmental bodies have to overcome in order to encourage the prompt payment of taxes and effectively reduce evasion includes, developing convenient payment methods and having proper records keeping systems.

The purpose of this project is to create a database for Income Tax Return System and connect it to a website so that real time updating and transactions on database can be handled.

Introduction

The objectives to be achieved by the system are instant access, improved productivity through efficient utilization of resources, database creation and records management, simplification of operations, reduced processing time, user friendliness, portability and flexibility for further enhancement. In Tax Information system, a client registers himself enters all the details and uploads various Documents that are necessary for preparation of Tax Summary and Schedules for an interview after successful submission of all the documents. After all the procedures are completed Tax Returns or Tax summary is prepared for all the clients by the admin who calls the clients and arranges an interview for discussing various issues regarding Tax summary. Once the client pays the amount for preparation of Tax Summary he can download the PDF format of his Tax Summary.

Project Scope

The main aim of this project is to prepare a Tax summary or Tax Returns system. In income tax returns system, a client registers himself then enters all the details and uploads various Documents that are very necessary for preparation of Tax Summary.

Project Resource Requirement

Front-end:

- HTML
- CSS
- JavaScript

Back-end:

- SQL Plus
- PHP

Entities

1. Registration
2. Login
3. MyProfile
4. Document
5. Schedule
6. Payment
7. Bank

Attributes

1. Registration

- taxid
- name (Composite Attr) – fname, mname, lname
- user id
- password
- phone

2. Login

- user id
- password

3. MyProfile

- Taxid
- name (Composite Attr) – fname, mname, lname
- Gender
- DOB
- Address
- City
- Doc_id

4. Document

- doc_id
- doc_type
- status (Multivalued Attr) – Accepted or Rejected

5. Schedule

- taxid
- skd_date
- status_confirmation

6. Payment

- CIN
- taxid
- bank
- Acc_no
- amount
- Pay_date

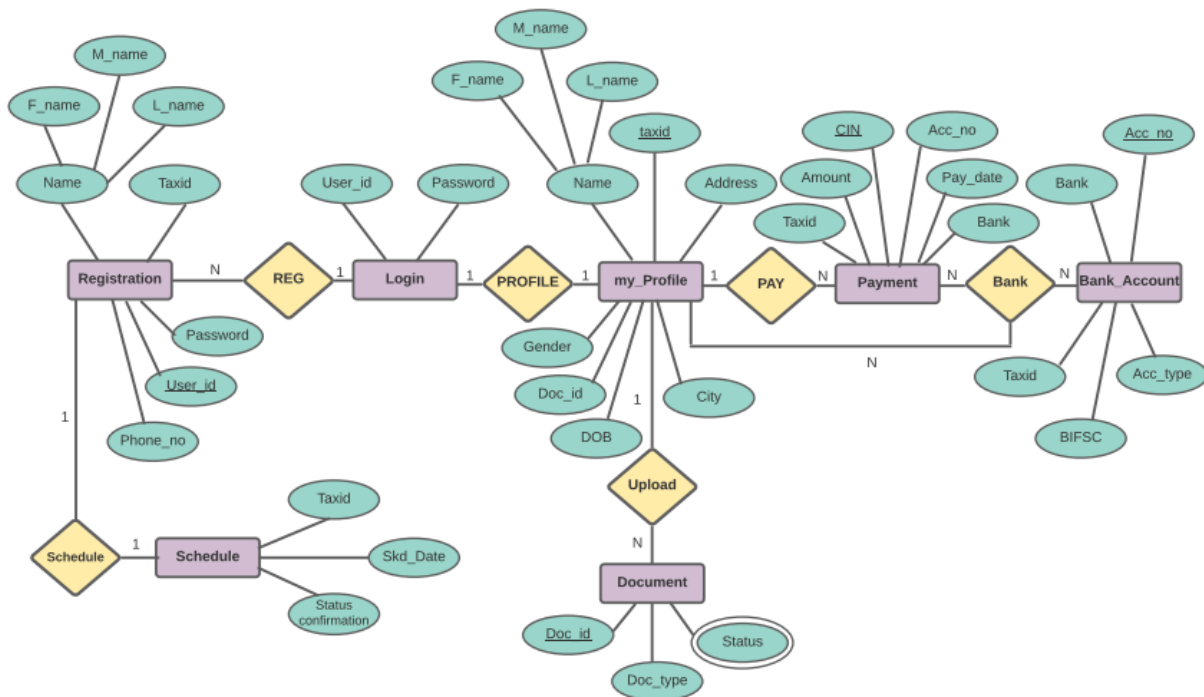
7. Bank Acc

- Bank
- Acc_no
- Acc_type
- BIFSC
- Taxid

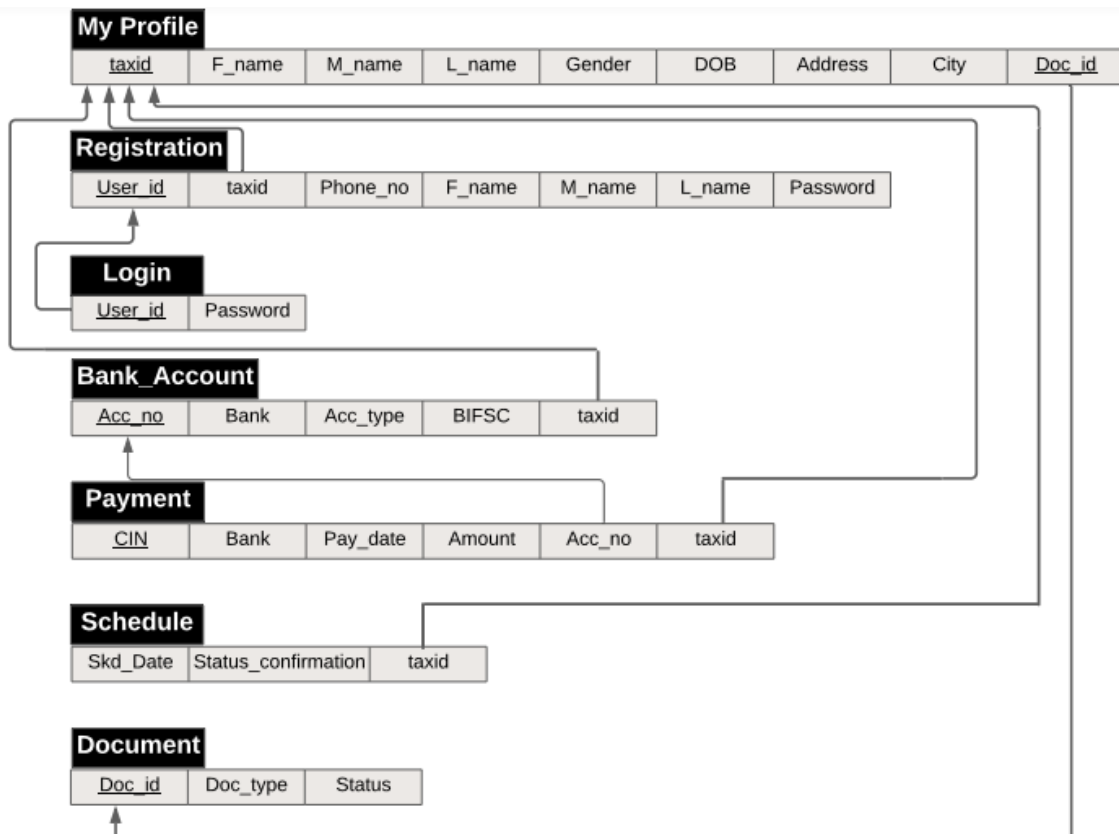
Relations

- a) My Profile does Login
- b) Login does Registration
- c) My Profile uploads Document
- d) My Profile holds Bank Acc
- e) My Profile pays Payment
- f) Payment through Bank Acc
- g) Schedule of Registration

ER Diagram



Relational Schema Diagram



Normalization

ENTITY SET 1: MYPROFILE

| | | | | | | | | |
|-------|-----|--------|---------|------|-------|-------|-------|--------------|
| Taxid | DOB | Gender | Address | City | Fname | Mname | Lname | <u>Docid</u> |
|-------|-----|--------|---------|------|-------|-------|-------|--------------|

Minimal Cover

taxid => fname

dob => fname

address => city

address => gender

fname => lname

fname => dob

fname => address

fname => taxid

docid => fname

city => address

city => mname

Checking present normal form

The table is in 2NF but violates 3NF and therefore not in BCNF

2NF

find all candidate keys. The candidates keys are { docid }, The set of key attributes are: { docid }

for each non-trivial FD, check whether the LHS is a proper subset of some candidate key or the RHS are not all key attributes

checking FD: $\text{taxid} \rightarrow \text{dob, gender, address, city, fname, mname, lname}$ checking
FD: $\text{dob} \rightarrow \text{gender, taxid, address, city, fname, mname, lname}$ checking FD:
 $\text{address} \rightarrow \text{city, mname, gender}$

checking FD: $\text{fname} \rightarrow \text{mname, lname, city, dob, address, gender, taxid}$ checking
FD: $\text{docid} \rightarrow \text{taxid, dob, gender, city, address, fname, mname, lname}$ checking FD:
 $\text{city} \rightarrow \text{address, mname}$

3NF

find all candidate keys. The candidate keys are { docid }, The set of key attributes are: { docid } for each FD, check whether the LHS is superkey or the RHS are all key attributes

checking functional dependency $\text{taxid} \rightarrow \text{dob, gender, address, city, fname, mname, lname}$

The above FD violates definition of 3NF: it is non-trivial, LHS is not superkey, RHS contains a non-key attribute.

BCNF

A table is in BCNF if and only if for every non-trivial FD, the LHS is a superkey.

The FD $\text{taxid} \rightarrow \text{dob, gender, address, city, fname, mname, lname}$ is non-trivial and its LHS is not a superkey. It violates BCNF.

Convert to BCNF

Step 1. Find merged minimal cover of FDs, which contains:

$\text{taxid} \rightarrow \text{fname}$

$\text{dob} \rightarrow \text{fname}$

$\text{address} \rightarrow \text{city, gender}$

$\text{fname} \rightarrow \text{lname, dob, address, taxid}$

$\text{docid} \rightarrow \text{fname}$

$\text{city} \rightarrow \text{address, mname}$

Initially rel[1] contains the original table, with the FDs above

Round1: Checking whether table rel[1] is in BCNF

The FD [taxid --> fname] violates BCNF as the LHS is not superkey. Table is split into the two below: rel[2]=

(taxid,fname,lname,dob,address,city,gender,mname)

rel[3]= (taxid,docid)

Round2: Checking whether table rel[2] is in BCNF

The FD [address --> city] violates BCNF as the LHS is not superkey. Table is split into the two below: rel[4]= (address,city,gender,mname)

rel[5]= (taxid,fname,lname,dob,address)

Round3: Checking whether table rel[3] is in BCNF

*** Table rel[3] is in BCNF already, send it to output ***

Round4: Checking whether table rel[4] is in BCNF

*** Table rel[4] is in BCNF already, send it to output ***

Round5: Checking whether table rel[5] is in BCNF

*** Table rel[5] is in BCNF already, send it to output ***

| | |
|-------|--------------|
| Taxid | <u>Docid</u> |
|-------|--------------|

| | | | |
|--------|---------|------|-------|
| Gender | Address | City | Mname |
|--------|---------|------|-------|

| | | | | |
|-------|-----|---------|-------|-------|
| Taxid | DOB | Address | Fname | Lname |
|-------|-----|---------|-------|-------|

ENTITY SET 2: DOCUMENT

| | | |
|-------|---------|--------|
| Docid | doctype | Satuts |
|-------|---------|--------|

Minimal Cover

docid \Rightarrow status
docid \Rightarrow doctype

Candidate Keys

docid

Checking present normal form

The table is in 2NF, 3NF and BCNF

2NF

find all candidate keys. The candidate keys are { docid }, The set of key attributes are: { docid }

for each non-trivial FD, check whether the LHS is a proper subset of some candidate key or the RHS are not all key attributes

checking FD: docid \rightarrow status, doctype

3NF

find all candidate keys. The candidate keys are { docid }, The set of key attributes are: { docid } for each FD, check whether the LHS is superkey or the RHS are all key attributes

checking functional dependency docid \rightarrow status, doctype

BCNF

A table is in BCNF if and only if for every non-trivial FD, the LHS is a superkey.

ENTITY SET 3: TAX REGISTRATION

| | | | | | | |
|-------|-------|--------|-------|-------|-------|----------|
| Taxid | Phone | Userid | Fname | Mname | Lname | password |
|-------|-------|--------|-------|-------|-------|----------|

Minimal Cover

taxid => lname

phone => lname

userid => lname

fname => lname

lname => taxid

lname => phone

lname => userid

lname => fname

lname => pwd

pwd => mname

Candidate Keys

- taxid
- phone
- userid
- fname
- lname

Checking current normal form

Table is 1NF, 2NF but not in 3NF and BCNF

2NF

find all candidate keys. The candidates keys are { taxid}, { phone}, { userid}, { fname}, { lname}, The set of key attributes are: { taxid,phone,userid,fname,lname }

for each non-trivial FD, check whether the LHS is a proper subset of some candidate key or the RHS are not all key attributes

checking FD: $\text{taxid} \rightarrow \text{phone,userid,fname,mname,lname,pwd}$

checking FD: $\text{phone} \rightarrow \text{taxid,userid,fname,mname,lname,pwd}$

checking FD: $\text{userid} \rightarrow \text{taxid,phone,fname,mname,lname,pwd}$

checking FD: $\text{fname} \rightarrow \text{taxid,phone,userid,mname,lname,pwd}$

checking FD: $\text{lname} \rightarrow \text{taxid,phone,userid,fname,mname,pwd}$

checking FD: $\text{pwd} \rightarrow \text{mname}$

3NF

find all candidate keys. The candidates keys are { taxid }, { phone }, { userid }, { fname }, { lname }, The set of key attributes are: { taxid,phone,userid,fname,lname }

for each FD, check whether the LHS is superkey or the RHS are all key attributes

checking functional dependency $\text{taxid} \rightarrow \text{phone,userid,fname,mname,lname,pwd}$

checking functional dependency $\text{phone} \rightarrow \text{taxid,userid,fname,mname,lname,pwd}$

checking functional dependency $\text{userid} \rightarrow \text{taxid,phone,fname,mname,lname,pwd}$

checking functional dependency $\text{fname} \rightarrow \text{taxid,phone,userid,mname,lname,pwd}$

checking functional dependency $\text{lname} \rightarrow \text{taxid,phone,userid,fname,mname,pwd}$

checking functional dependency $\text{pwd} \rightarrow \text{mname}$

The above FD violates definition of 3NF: it is non-trivial, LHS is not superkey, RHS contains a non-key attribute.

BCNF

A table is in BCNF if and only if for every non-trivial FD, the LHS is a superkey.

The FD $\text{pwd} \rightarrow \text{mname}$ is non-trivial and its LHS is not a superkey. It violates BCNF.

STEPS TO NORMALIZE:

Step 1. Find merged minimal cover of FDs, which contains:

$\text{taxid} \rightarrow \text{lname}$

$\text{phone} \rightarrow \text{lname}$

$\text{userid} \rightarrow \text{lname}$

$\text{fname} \rightarrow \text{lname}$

$\text{lname} \rightarrow \text{taxid}, \text{phone}, \text{userid}, \text{fname}, \text{pwd}$

$\text{pwd} \rightarrow \text{mname}$

Initially relation[1] contains the original table, with the FDs above

Round1: Checking whether table relation[1] is in BCNF

The FD $[\text{pwd} \rightarrow \text{mname}]$ violates BCNF as the LHS is not superkey. Table is split into the two below: relation[2]= (pwd,mname)

relation[3]= (taxid,phone,userid,fname,lname,pwd)

Round2: Checking whether table rel[2] is in BCNF

*** Table rel[2] is in BCNF already, send it to output ***

Round3: Checking whether table rel[3] is in BCNF

*** Table rel[3] is in BCNF already, send it to output ***

| | |
|-------|----------|
| mname | password |
|-------|----------|

| | | | | | |
|-------|-------|--------|-------|-------|----------|
| Taxid | Phone | Userid | Fname | Lname | password |
|-------|-------|--------|-------|-------|----------|

ENTITY SET 4: PAYMENT

| | | | | | |
|----------|------|--------|-----|----------------|-------|
| bankname | date | Amount | CIN | Account_Number | Taxid |
|----------|------|--------|-----|----------------|-------|

Minimal Cover

date => amount

cin => taxid

account_number => taxid

taxid => bankname

taxid => date

taxid => cin

taxid => account_number

bankname => amount

Candidate keys

- cin
- account_number
- taxid

Check present normal Form

This relation is in 2NF but it violates 3NF and therefore BCNF.

2NF

find all candidate keys. The candidates keys are { cin }, { account_number }, { taxid }, The set of key attributes are: { cin , account_number, taxid }

for each non-trivial FD, check whether the LHS is a proper subset of some candidate key or the RHS are not all key attributes

checking FD: cin --> bankname,date,amount,account_number,taxid

checking FD: account_number --> bankname,date,amount,cin,taxid

checking FD: taxid --> bankname,date,amount,cin,account_number

checking FD: bankname --> amount

checking FD: date --> amount

3NF

find all candidate keys. The candidates keys are { cin }, { account_number }, { taxid }, The set of key attributes are: { cin,account_number,taxid }

for each FD, check whether the LHS is superkey or the RHS are all key attributes

checking functional dependency cin -->
bankname,date,amount,account_number,taxid

checking functional dependency account_number -->
bankname,date,amount,cin,taxid

checking functional dependency taxid -->
bankname,date,amount,cin,account_number

checking functional dependency bankname --> amount

The above FD violates definition of 3NF: it is non-trivial, LHS is not superkey, RHS contains a non- key attribute.

BCNF

A table is in BCNF if and only if for every non-trivial FD, the LHS is a superkey.

The FD bankname --> amount is non-trivial and its LHS is not a superkey. It violates BCNF.

Converting to BCNF

Step 1. Find merged minimal cover of FDs, which contains:

cin --> taxid account_number --> taxid

taxid --> bankname,date,cin,account_number bankname --> amount

date --> amount

Initially rel[1] contains the original table, with the FDs above

Round1: Checking whether table rel[1] is in BCNF

The FD [bankname --> amount] violates BCNF as the LHS is not superkey.

Table is split into the two below:

rel[2]= (bankname,amount)

rel[3]= (bankname,date,cin,account_number,taxid)

Round2: Checking whether table rel[2] is in BCNF

*** Table rel[2] is in BCNF already, send it to output ***

Round3: Checking whether table rel[3] is in BCNF

*** Table rel[3] is in BCNF already, send it to output ***

| | |
|----------|--------|
| bankname | amount |
|----------|--------|

| | | | | |
|----------|------|-----|----------------|-------|
| bankname | date | CIN | Account_Number | Taxid |
|----------|------|-----|----------------|-------|

ENTITY SET 5 : SCHEDULE

| | | |
|-------|---------------------|----------|
| Taxid | Status_confirmation | skd_date |
|-------|---------------------|----------|

Minimal cover

tax_id => skd_date

sdate => tax_id

skd_date => status_confirmation

Candidate key

- tax_id
- sdate

Check Present Normal Form

The table is 2NF , 3NF and BCNF

2NF

find all candidate keys. The candidates keys are { tax_id}, { sdate}, The set of key attributes are: { tax_id,sdate }

for each non-trivial FD, check whether the LHS is a proper subset of some candidate key or the RHS are not all key attributes

checking FD: tax_id □ status_confirmation, skd_date

checking FD: skd_date -> tax_id, status_confirmation

3NF

find all candidate keys. The candidates keys are { tax_id}, { skd_date}, The set of key attributes are: { tax_id,skd_date }

for each FD, check whether the LHS is superkey or the RHS are all key attributes checking functional dependency $\text{tax_id} \twoheadrightarrow \text{status_confirmation, skd_date}$
 checking functional dependency $\text{skd_date} \twoheadrightarrow \text{tax_id, status_confirmation}$

BCNF

A table is in BCNF if and only if for every non-trivial FD, the LHS is a superkey.

ENTITY SET 6: BANK ACCOUNT

| | | | |
|----------------|----------|-----------|--------------|
| Account_Number | Bankname | BIFS code | Account_type |
|----------------|----------|-----------|--------------|

Minimal Cover

$\text{accountnumber} \Rightarrow \text{bankname}$

$\text{bankname} \Rightarrow \text{BIFSCode}$

$\text{BIFSCode} \Rightarrow \text{Account_Type}$

Candidate Keys

accountnumber

Checking Present Normal Form

This Relation is in 2NF, but it violates 3NF and BCNF

2NF

find all candidate keys. The candidates keys are { accountnumber }, The set of key attributes are: { accountnumber }

for each non-trivial FD, check whether the LHS is a proper subset of some candidate key or the RHS are not all key attributes

checking FD: accountnumber \rightarrow bankname checking FD: bankname \rightarrow BIFScore checking FD: BIFScore \rightarrow Type

3NF

find all candidate keys. The candidate keys are { accountnumber }, The set of key attributes are: { accountnumber }

for each FD, check whether the LHS is superkey or the RHS are all key attributes checking functional dependency accountnumber \rightarrow bankname

checking functional dependency bankname \rightarrow BIFScore

The above FD violates definition of 3NF: it is non-trivial, LHS is not superkey, RHS contains a non-key attribute.

BCNF

A table is in BCNF if and only if for every non-trivial FD, the LHS is a superkey.

The FD bankname \rightarrow BIFScore is non-trivial and its LHS is not a superkey. It violates BCNF.

Convert to BCNF

Step 1. Find merged minimal cover of FDs, which contains:

accountnumber \rightarrow bankname bankname \rightarrow BIFScore BIFScore \rightarrow Type

Initially rel[1] contains the original table, with the FDs above

Round1: Checking whether table rel[1] is in BCNF

The FD [bankname \rightarrow BIFScore] violates BCNF as the LHS is not superkey. Table is split into the two below:

rel[2]= (bankname,BIFScore,Type) rel[3]= (accountnumber,bankname)

Round2: Checking whether table rel[2] is in BCNF

The FD [BIFSCode --> Type] violates BCNF as the LHS is not superkey. Table is split into the two below:

rel[4]= (BIFSCode,Type) rel[5]= (bankname,BIFSCode)

Round3: Checking whether table rel[3] is in BCNF

*** Table rel[3] is in BCNF already, send it to output ***

Round4: Checking whether table rel[4] is in BCNF

*** Table rel[4] is in BCNF already, send it to output ***

Round5: Checking whether table rel[5] is in BCNF

*** Table rel[5] is in BCNF already, send it to output ***

| | |
|----------------|----------|
| Account_Number | Bankname |
|----------------|----------|

| | | |
|-----------|--------------|----------------|
| BIFS code | Account_type | Account_Number |
|-----------|--------------|----------------|

| | |
|----------|-----------|
| Bankname | BIFS code |
|----------|-----------|

Database

Table Names

- my_Profile
- Registration
- Login
- Bank_Account
- Payment
- Schedule
- Document

Creating Tables

my_Profile

```
SQL> create table my_Profile(taxid NUMBER(15), Fname VARCHAR(10), Mname VARCHAR(10), Lname VARCHAR(10), Gender CHAR(5), DOB DATE, Address VARCHAR(20), City VARCHAR(15), Docid REFERENCES Document(Doc_id), PRIMARY KEY(taxid, Docid));
```

Registration

```
SQL> create table Registration(User_id NUMBER(10) PRIMARY KEY, taxid REFERENCES my_Profile(taxid), Phone_no NUMBER(10), Fname VARCHAR(10), Mname VARCHAR(10), Lname VARCHAR(10), Password VARCHAR(10));  
Table created.
```

Login

```
SQL> create table Login(User_id REFERENCES Registration(User_id), Password VARCHAR(10));  
Table created.
```

Bank_Account

```
SQL> create table Bank_Account(Acc_no NUMBER(15) PRIMARY KEY, Bank VARCHAR(20), Acc_type VARCHAR(15), BIFSC VARCHAR(15), taxid REFERENCES my_Profile(taxid));  
Table created.
```

```
SQL> desc bank_account;  
Name                               Null?    Type  
-----  
ACC_NO                             NOT NULL NUMBER(15)  
BANK                                VARCHAR2(20)  
ACC_TYPE                           VARCHAR2(15)  
BIFSC                              VARCHAR2(15)  
TAXID                              NUMBER(15)
```

Payment

```
SQL> create table Payment(CIN NUMBER(15) PRIMARY KEY, Bank VARCHAR(20), Pay_date DATE, Amount NUMBER(10), Acc_no REFERENCES Bank_Account(Acc_no), taxid REFERENCES my_Profile(taxid));
Table created.
SQL> desc payment;
Name                               Null?    Type
-----
CIN                                NOT NULL NUMBER(15)
BANK                               VARCHAR2(20)
PAY_DATE                           DATE
AMOUNT                             NUMBER(10)
ACC_NO                             NUMBER(15)
TAXID                              NUMBER(15)
```

Schedule

```
SQL> create table Schedule(Skd_Date DATE, Status_confirmation VARCHAR(20), taxid REFERENCES my_Profile(taxid));
Table created.
SQL> desc Schedule;
Name                               Null?    Type
-----
SKD_DATE                           DATE
STATUS_CONFIRMATION                VARCHAR2(20)
TAXID                              NUMBER(15)
```

Document

```
SQL> create table Document(Doc_id NUMBER(10) PRIMARY KEY, Doc_type VARCHAR(20), Status VARCHAR(15));
Table created.
SQL> desc document;
Name                               Null?    Type
-----
DOC_ID                             NOT NULL NUMBER(10)
DOC_TYPE                           VARCHAR2(20)
STATUS                             VARCHAR2(15)
```

Inserting in Tables

my_Profile

```
SQL> select * from my_profile;
```

| TAXID | FNAME | MNAME | LNAME | GENDE | DOB | ADDRESS | CITY | DOCID |
|-------|-----------|---------|---------|-------|-----------|----------------|---------|-------|
| 70322 | Dhruv | Umesh | Sompura | M | 07-MAR-02 | thakur village | mumbai | 12345 |
| 30572 | Ishan | Rajesh | Kasat | M | 12-JUN-02 | Amravati | Nagpur | 67890 |
| 18124 | Samyuktha | Arjun | Shah | F | 04-FEB-01 | Kota | Chambal | 8642 |
| 26322 | Mohit | Jignesh | Raval | M | 26-MAR-72 | kandivali | mumbai | 35791 |
| 10076 | Dhvani | Jayesh | Patel | F | 18-DEC-64 | Rajender Nagar | Delhi | 29835 |

Registration

```
SQL> insert into registration values(99342, 10076, 8425018090,'Dhvani','Jayesh','Patel','jayho5678')
2 ;

1 row created.

SQL> insert into registration values(23987, 70322, 9594675960,'Dhruv','Umesh','Sompura','drum&&#67')
2 ;

1 row created.

SQL> insert into registration values(76543, 26322, 9619785618,'Mohit','Jignesh','Raval','moroko123')
2 ;

1 row created.

SQL> insert into registration values(78901, 30572, 8976456734,'Ishan','Rajesh','Kasat','raj223ih')
2 ;

1 row created.

SQL>
SQL> insert into registration values(45678, 18124, 9920589020,'Samyuktha','Arjun','Shah','sam8901#');

1 row created.

SQL> select * from registration;
```

| USER_ID | TAXID | PHONE_NO | FNAME | MNAME | LNAME | PASSWORD |
|---------|-------|------------|-----------|---------|---------|-----------|
| 99342 | 10076 | 8425018090 | Dhvani | Jayesh | Patel | jayho5678 |
| 23987 | 70322 | 9594675960 | Dhruv | Umesh | Sompura | drum&C |
| 76543 | 26322 | 9619785618 | Mohit | Jignesh | Raval | moroko123 |
| 78901 | 30572 | 8976456734 | Ishan | Rajesh | Kasat | raj223ih |
| 45678 | 18124 | 9920589020 | Samyuktha | Arjun | Shah | sam8901# |

Login

```
SQL> insert into login values('99342','jayho5678');

1 row created.

SQL> insert into login values('45678','sam8901#');

1 row created.

SQL> insert into login values('76543','moroko123');

1 row created.

SQL> insert into login values('23987','drum&&#67')
2 ;

1 row created.

SQL> insert into login values('78901','raj223ih');

1 row created.

SQL> select * from login;
```

| USER_ID | PASSWORD |
|---------|-----------|
| 99342 | jayho5678 |
| 45678 | sam8901# |
| 76543 | moroko123 |
| 23987 | drum&C |
| 78901 | raj223ih |

Bank_Account

```
SQL> insert into bank_account values(1234567890,'HDFC Bank','Current','QWER12345',70322);
1 row created.

SQL> insert into bank_account values(9876543210,'ICICI Bank','Savings','DWFE91826',30572);
1 row created.

SQL> insert into bank_account values(1357924680,'Axis Bank','FD','ASDF35791',18124);
1 row created.

SQL> insert into bank_account values(2468013579,'Canara Bank','Savings','RIDT56091',26322);
1 row created.

SQL> insert into bank_account values(5674389210,'Bank Of Baroda','FD','BOBB3576',10076)
2 ;
1 row created.

SQL> select * from bank_account;
```

| ACC_NO | BANK | ACC_TYPE | BIFSC | TAXID |
|------------|----------------|----------|-----------|-------|
| 1234567890 | HDFC Bank | Current | QWER12345 | 70322 |
| 9876543210 | ICICI Bank | Savings | DWFE91826 | 30572 |
| 1357924680 | Axis Bank | FD | ASDF35791 | 18124 |
| 2468013579 | Canara Bank | Savings | RIDT56091 | 26322 |
| 5674389210 | Bank Of Baroda | FD | BOBB3576 | 10076 |

Payment

```
SQL> insert into payment values(91122,'Bank Of Baroda','12-nov-2021',80000,5674389210,10076);
1 row created.

SQL> insert into payment values(27922,'Canara Bank','4-oct-2021',100000,2468013579,26322);
1 row created.

SQL> insert into payment values(24112,'Axis Bank','3-may-2020',10000,1357924680,18124);
1 row created.

SQL> insert into payment values(78679,'ICICI Bank','24-nov-2021',50000,9876543210,30572);
1 row created.

SQL> insert into payment values(69420,'HDFC Bank','30-oct-2021',200000,1234567890,70322);
1 row created.

SQL> select * from payment;
```

| CIN | BANK | PAY_DATE | AMOUNT | ACC_NO | TAXID |
|-------|----------------|-----------|--------|------------|-------|
| 91122 | Bank Of Baroda | 12-NOV-21 | 80000 | 5674389210 | 10076 |
| 27922 | Canara Bank | 04-OCT-21 | 100000 | 2468013579 | 26322 |
| 24112 | Axis Bank | 03-MAY-20 | 10000 | 1357924680 | 18124 |
| 78679 | ICICI Bank | 24-NOV-21 | 50000 | 9876543210 | 30572 |
| 69420 | HDFC Bank | 30-OCT-21 | 200000 | 1234567890 | 70322 |

Schedule

```
SQL> insert into Schedule values('7-mar-2021', 'Confirmed',10076);
1 row created.

SQL> insert into Schedule values('30-may-2020', 'Not Confirmed',26322);
1 row created.

SQL> insert into Schedule values('20-oct-2021', 'Not Confirmed',18124);
1 row created.

SQL> insert into Schedule values('25-nov-2021', 'Confirmed',30572);
1 row created.

SQL> insert into Schedule values('30-nov-2021', 'Confirmed',70322);
1 row created.

SQL> select * from schedule;
```

| SKD_DATE | STATUS_CONFIRMATION | TAXID |
|-----------|---------------------|-------|
| 07-MAR-21 | Confirmed | 10076 |
| 30-MAY-20 | Not Confirmed | 26322 |
| 20-OCT-21 | Not Confirmed | 18124 |
| 25-NOV-21 | Confirmed | 30572 |
| 30-NOV-21 | Confirmed | 70322 |

Document

```
SQL> insert into Document values(29835, 'Form 16','Accepted');
1 row created.

SQL>
SQL> insert into Document values(35791, 'PAN','Accepted');
1 row created.

SQL> insert into Document values(08642, 'Form 16','Rejected');
1 row created.

SQL> insert into Document values(67890, 'PAN','Accepted');
1 row created.

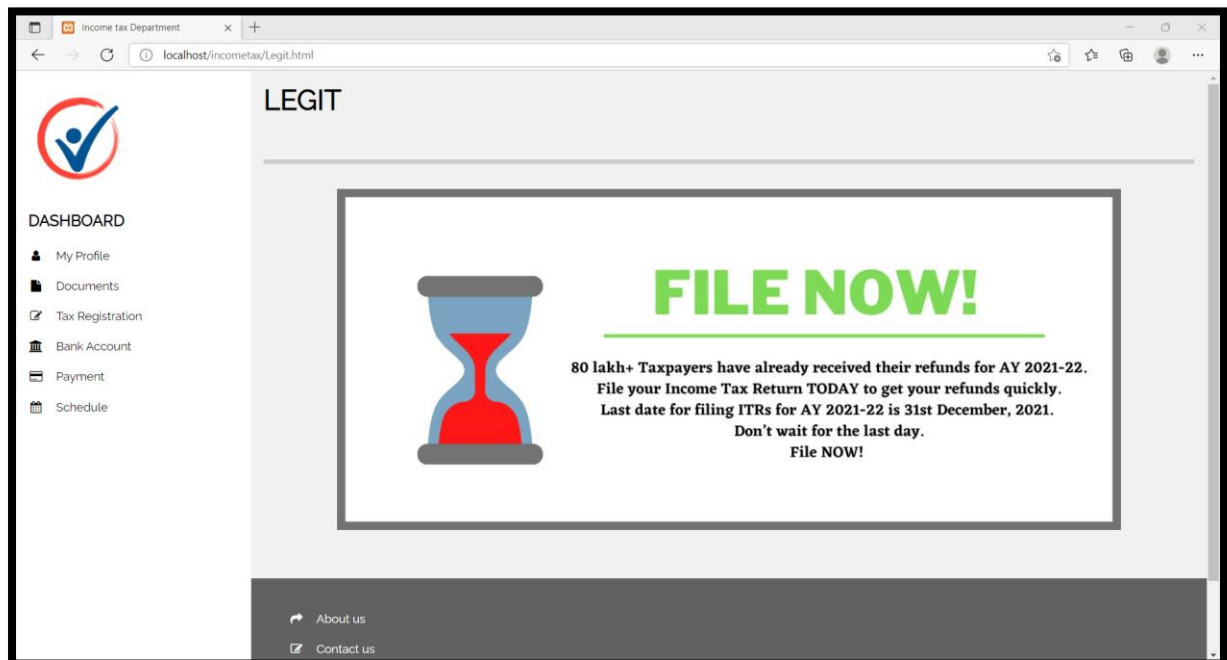
SQL> insert into Document values(12345, 'Form 26','Accepted')
2 ;
1 row created.

SQL> select * from document;
```

| DOC_ID | DOC_TYPE | STATUS |
|--------|----------|----------|
| 29835 | Form 16 | Accepted |
| 35791 | PAN | Accepted |
| 8642 | Form 16 | Rejected |
| 67890 | PAN | Accepted |
| 12345 | Form 26 | Accepted |

Output

Front-end implementation



My Profile

A screenshot of a web browser displaying the 'My Profile' form on the Income Tax Website. The browser's address bar shows 'localhost/incometax/myProfile.html'. The form is titled 'Income Tax Website' and 'My Profile'. It contains several input fields: 'Tax ID', 'First Name', 'Middle Name', 'Last Name', 'Date of Birth' (with a date picker showing 'dd-mm-yyyy'), 'Gender' (with radio buttons for 'Male' and 'Female'), 'Document ID', 'Address', and 'City'. A blue 'Submit' button is located at the bottom of the form. The background of the page features abstract blue and white geometric shapes.

Document

A screenshot of a web browser displaying the 'Document' form on the 'Income Tax Website'. The browser's address bar shows 'localhost/incometax/document.html'. The form is a white modal box with a blue 'Submit' button. It contains three input fields: 'Doc ID', 'Doc Type', and 'Doc Status'. The background features a light blue gradient with abstract blue geometric shapes.

Income Tax Website

Document

Doc ID

Doc Type

Doc Status

Submit

Registration

A screenshot of a web browser displaying the 'Registration' form on the 'Income Tax Website'. The browser's address bar shows 'localhost/incometax/registration.html'. The form is a white modal box with a blue 'Submit' button. It contains seven input fields: 'User id', 'Tax ID', 'Phone No', 'First Name', 'Middle Name', 'Last Name', and 'Password'. The background features a light blue gradient with abstract blue geometric shapes.

Income Tax Website

Registration

User id

Tax ID

Phone No

First Name

Middle Name

Last Name

Password

Submit

Bank Account

The screenshot shows a web browser window with the URL `localhost/incometax/bankAccount.html`. The page features a light blue background with abstract dark blue geometric shapes. A white modal form titled "Bank Account" is centered on the screen. The form contains the following fields: "Account Number", "Bank Name", "Account Type", "BIFSC", and "Tax ID", each with a corresponding text input box. A blue "Submit" button is located at the bottom of the form.

Income Tax Website

Bank Account

Account Number

Bank Name

Account Type

BIFSC

Tax ID

Submit

Payment

The screenshot shows a web browser window with the URL `localhost/incometax/payment.html`. The page features a light blue background with abstract dark blue geometric shapes. A white modal form titled "Payment" is centered on the screen. The form contains the following fields: "CIN", "Bank Name", "Pay Date" (with a date picker icon), "Amount", "Account Number", and "Tax ID", each with a corresponding text input box. A blue "Submit" button is located at the bottom of the form.

Income Tax Website

Payment

CIN

Bank Name

Pay Date

Amount

Account Number

Tax ID

Submit

Schedule

The screenshot shows a web browser window with the address bar displaying 'localhost/127.0.0.1/incometax/schedule.html'. The page title is 'Income Tax Website'. The main content is a 'Schedule' form. The form has a title 'Schedule' and three input fields: 'Skid_Date' with a placeholder 'dd-mm-yyyy' and a calendar icon, 'Status', and 'Tax ID'. A blue 'Submit' button is at the bottom of the form. The background features abstract blue and white geometric shapes.

Income Tax Website

Schedule

Skid_Date

dd-mm-yyyy

Status

Tax ID

Submit

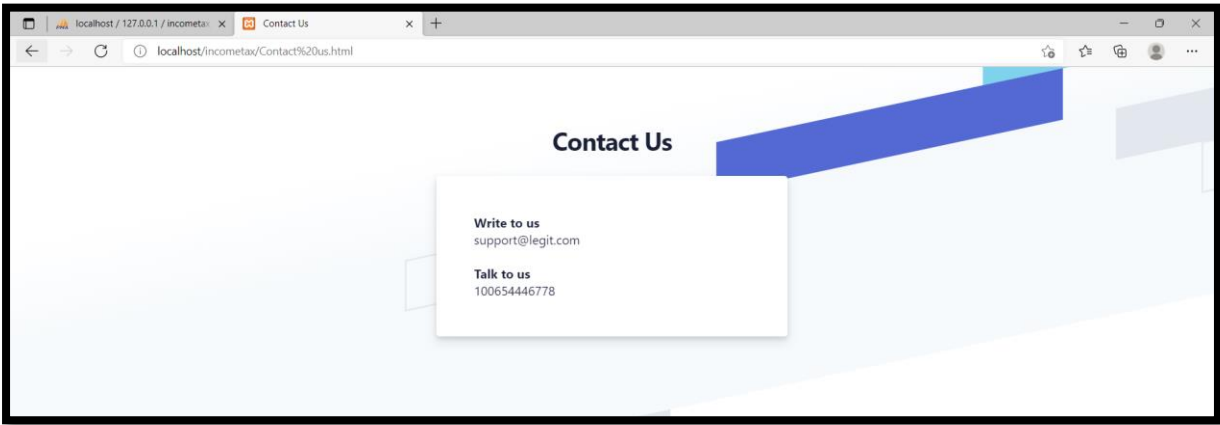
About us

The screenshot shows a web browser window with the address bar displaying 'localhost/127.0.0.1/incometax/About%20us.html'. The page title is 'About us'. The main content is a text block describing the website's purpose. The background features abstract blue and white geometric shapes.

About us

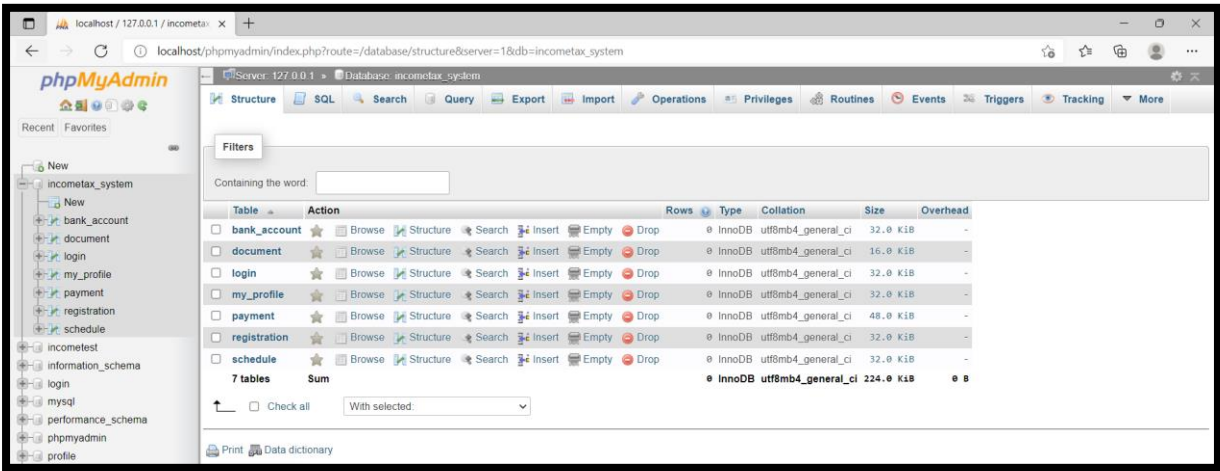
We help citizens to get instant access, improved productivity through efficient utilization of resources, database creation and records management, simplification of operations, reduced processing time, user friendliness, portability and flexibility for further enhancement. In Tax Information system, a client registers himself enters all the details and uploads various Documents that are necessary for preparation of Tax Summary and Schedules for an interview after successful submission of all the documents. After all the procedures are completed Tax Returns or Tax summary is prepared for all the clients by the admin who calls the clients and arranges an interview for discussing various issues regarding Tax summary. Once the client pays the amount for preparation of Tax Summary he can download the PDF format of his Tax Summary

Contact us



Back-end Implementation

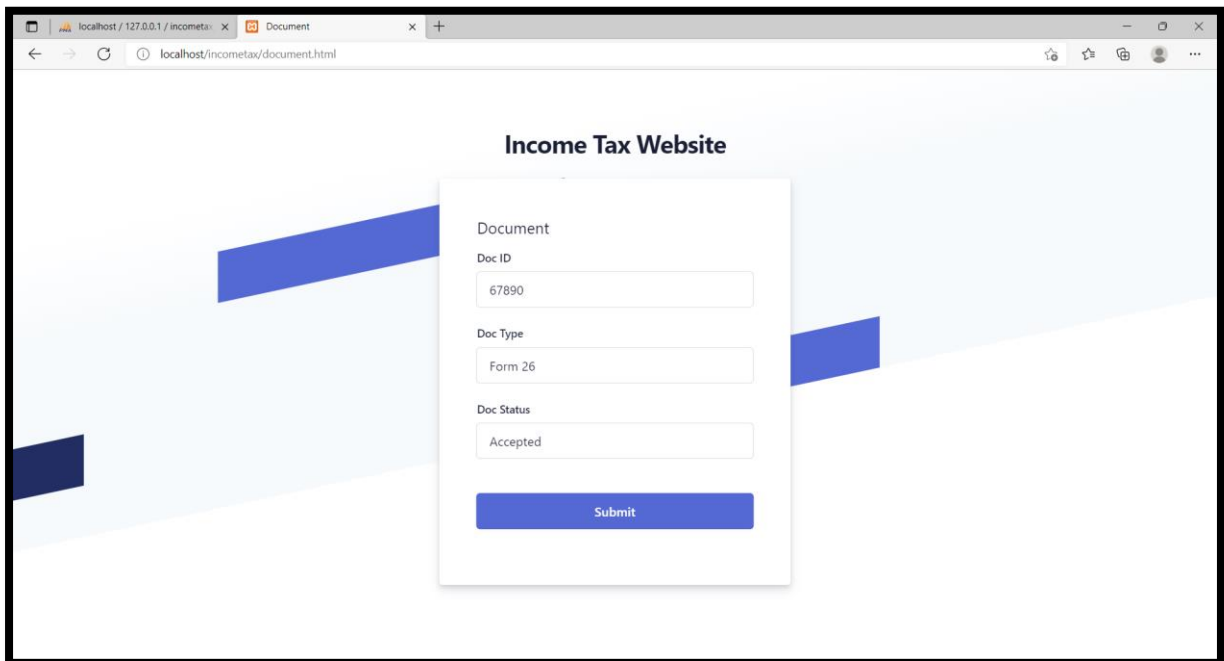
We have created our Database using Xampp MYSQL PHP server



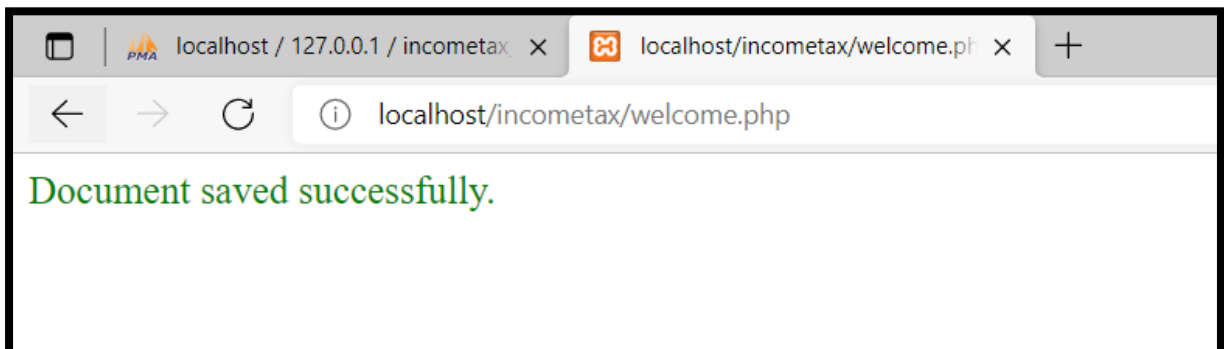
| Table | Action | Rows | Type | Collation | Size | Overhead |
|---------------------------------------|--------|------|--------|--------------------|-----------|----------|
| <input type="checkbox"/> bank_account | | 0 | InnoDB | utf8mb4_general_ci | 32.0 KiB | - |
| <input type="checkbox"/> document | | 0 | InnoDB | utf8mb4_general_ci | 16.0 KiB | - |
| <input type="checkbox"/> login | | 0 | InnoDB | utf8mb4_general_ci | 32.0 KiB | - |
| <input type="checkbox"/> my_profile | | 0 | InnoDB | utf8mb4_general_ci | 32.0 KiB | - |
| <input type="checkbox"/> payment | | 0 | InnoDB | utf8mb4_general_ci | 48.0 KiB | - |
| <input type="checkbox"/> registration | | 0 | InnoDB | utf8mb4_general_ci | 32.0 KiB | - |
| <input type="checkbox"/> schedule | | 0 | InnoDB | utf8mb4_general_ci | 32.0 KiB | - |
| 7 tables | Sum | 0 | InnoDB | utf8mb4_general_ci | 224.0 KiB | 0 B |

Database

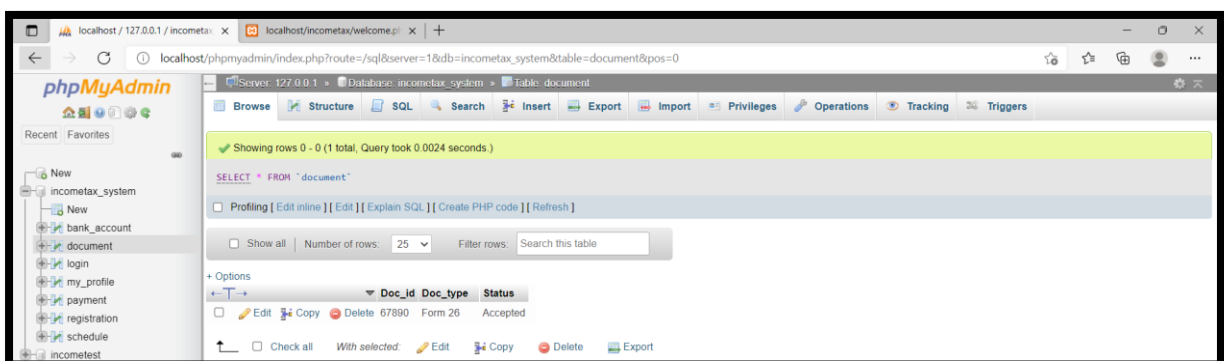
Document



The screenshot shows a web browser window with the URL `localhost/incometax/document.html`. The page has a light blue background with abstract blue shapes. A white form titled "Income Tax Website" is centered. The form has a "Document" section with three input fields: "Doc ID" (containing "67890"), "Doc Type" (containing "Form 26"), and "Doc Status" (containing "Accepted"). A blue "Submit" button is at the bottom of the form.



The screenshot shows a web browser window with the URL `localhost/incometax/welcome.php`. The page displays a green message: "Document saved successfully."



The screenshot shows the phpMyAdmin interface. The left sidebar shows the database structure with "incometax_system" selected. The main area shows the "document" table with the following data:

| Doc_Id | Doc_type | Status |
|--------|----------|----------|
| 67890 | Form 26 | Accepted |

My profile

Income Tax Website

My Profile

Tax ID
10076

First Name
Ishan

Middle Name
Rajesh

Last Name
Kasat

Date of Birth
13-01-2003

Gender
☒ Male ☐ Female

Document ID
67890

Address
Bangalore

City
Mumbai

Submit

Records saved successfully !!

phpMyAdmin

Server: 127.0.0.1 * Database: incometax_system * Table: my_profile

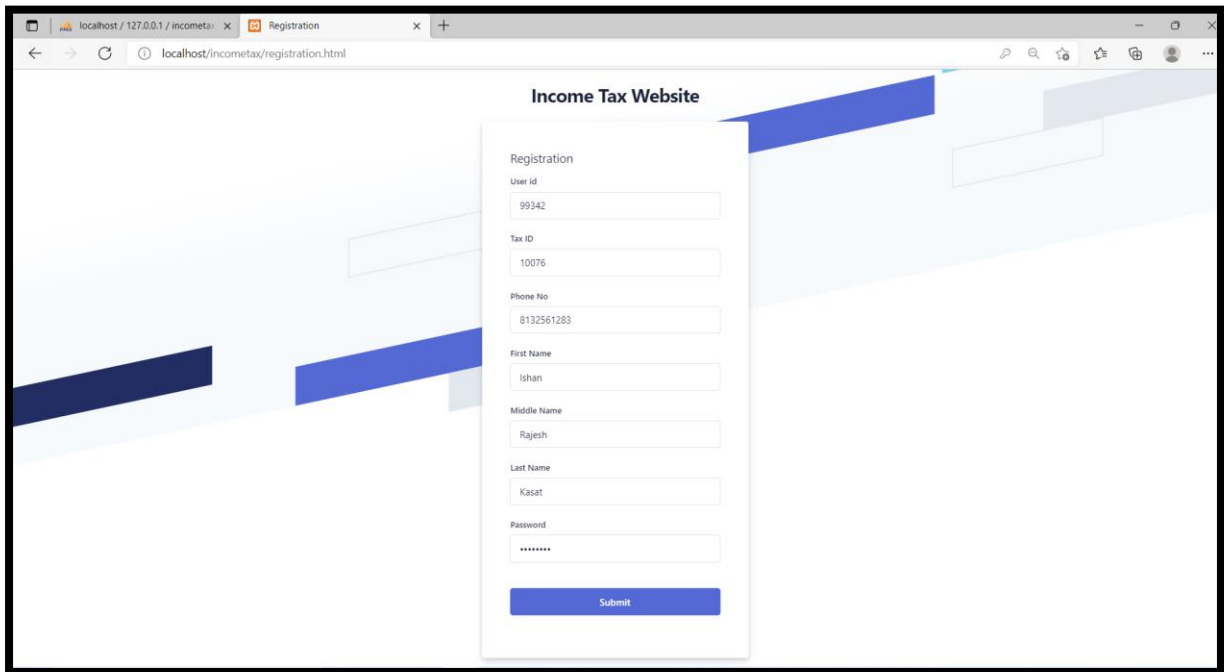
Showing rows 0 - 0 (1 total, Query took 0.0033 seconds)

SELECT * FROM "my_profile"

Number of rows: 25 Filter rows: Search this table

| | taxid | Fname | Mname | Lname | Gender | DOB | Address | City | Docid |
|--------------------------|-------|-------|--------|-------|--------|------------|---------|-------|-------|
| <input type="checkbox"/> | 10076 | Ishan | Rajesh | Kasat | male | 2003-01-13 | Mumbai | 67890 | |

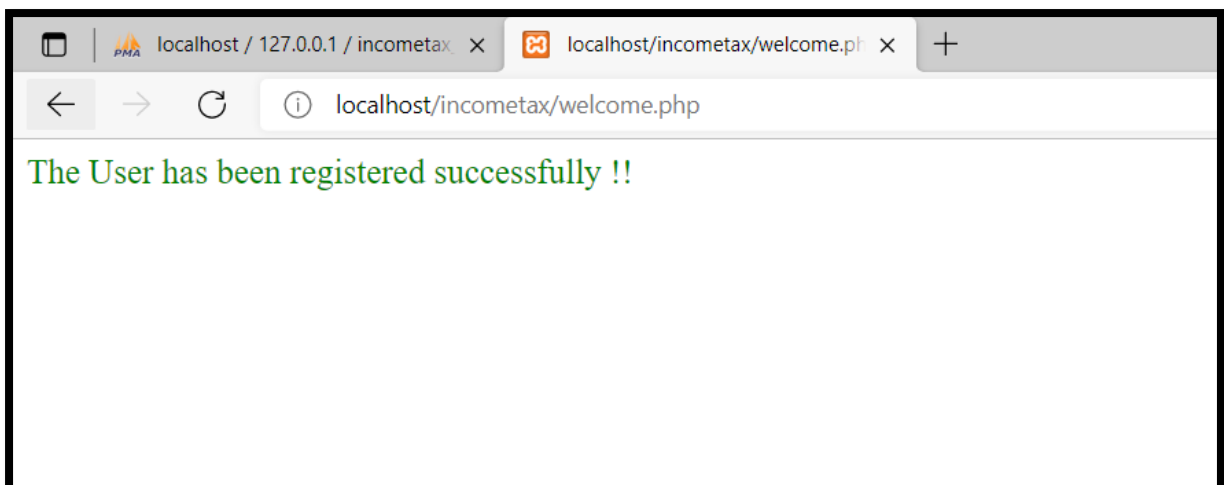
Registration



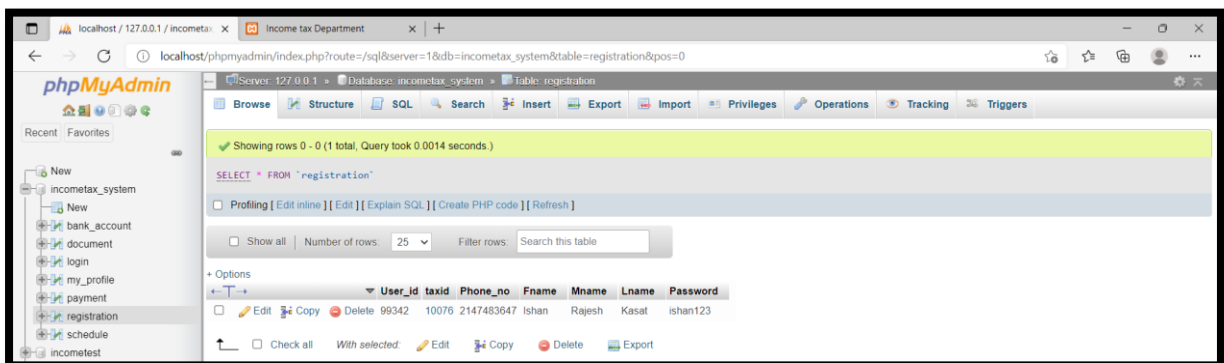
The screenshot shows a web browser window with the URL `localhost/incometax/registration.html`. The page features a registration form titled "Income Tax Website" with the following fields:

- User id: 99342
- Tax ID: 10076
- Phone No: 8132561283
- First Name: Ishan
- Middle Name: Rajesh
- Last Name: Kasat
- Password: (masked with asterisks)

A blue "Submit" button is located at the bottom of the form.



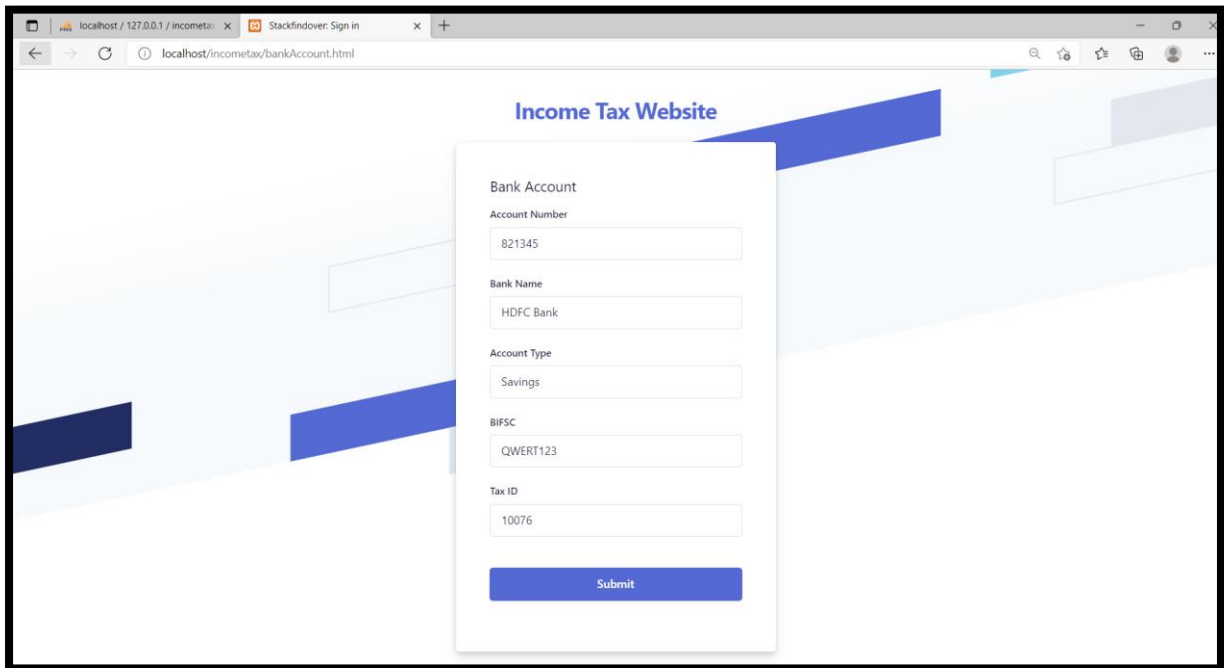
The screenshot shows a web browser window with the URL `localhost/incometax/welcome.php`. The page displays a green message: "The User has been registered successfully !!".



The screenshot shows the phpMyAdmin interface for the `incometax_system` database. The `registration` table is selected, and the query `SELECT * FROM `registration`` is executed. The table contains one row of data:

| User_id | taxid | Phone_no | Fname | Mname | Lname | Password |
|---------|-------|------------|-------|--------|-------|----------|
| 99342 | 10076 | 2147483647 | Ishan | Rajesh | Kasat | ishan123 |

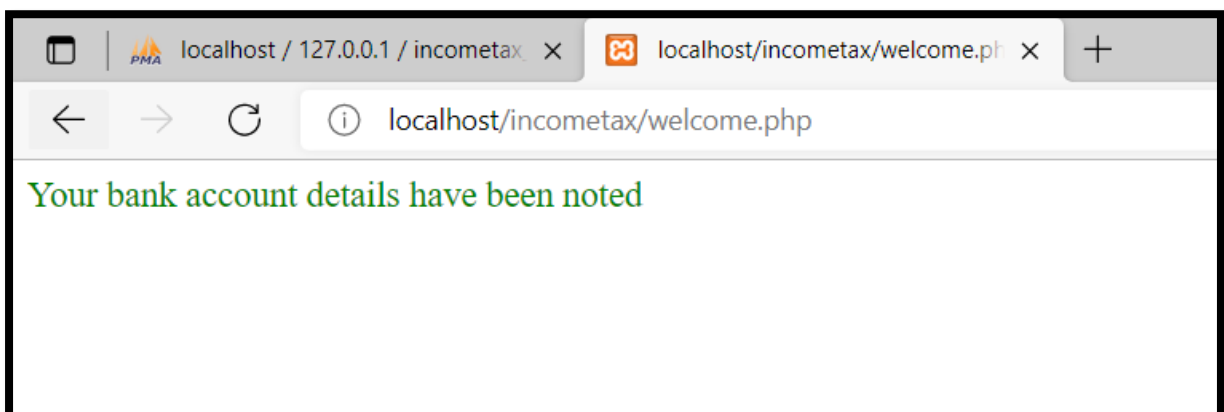
Bank Account



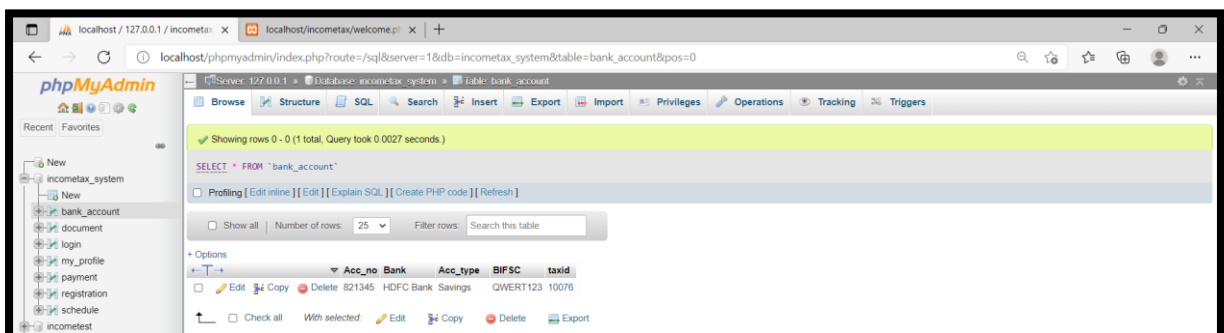
The screenshot shows a web browser window with the URL `localhost/incometax/bankAccount.html`. The page title is "Income Tax Website". A modal form titled "Bank Account" is displayed in the center. The form contains the following fields:

- Account Number: 821345
- Bank Name: HDFC Bank
- Account Type: Savings
- BIFSC: QWERT123
- Tax ID: 10076

A blue "Submit" button is located at the bottom of the form.



The screenshot shows a web browser window with the URL `localhost/incometax/welcome.php`. The page displays a green message: "Your bank account details have been noted".



The screenshot shows the phpMyAdmin interface. The left sidebar shows the database structure, including the `bank_account` table. The main area displays the table's contents:

| Acc_no | Bank | Acc_type | BIFSC | taxid |
|--------|-----------|----------|----------|-------|
| 821345 | HDFC Bank | Savings | QWERT123 | 10076 |

The table is titled "Showing rows 0 - 0 (1 total, Query took 0.0027 seconds)". The SQL query shown is `SELECT * FROM `bank_account``.

Payment

The screenshot shows a web browser window with the URL `localhost/incometax/payment.html`. The page title is "Income Tax Website". A central form titled "Payment" contains the following fields:

- CIN: 24112
- Bank Name: HDFC Bank
- Pay Date: 02-12-2021
- Amount: 500000
- Account Number: 821345
- Tax ID: 10076

A blue "Submit" button is located at the bottom of the form.

The screenshot shows a web browser window with the URL `localhost/incometax/welcome.php`. The page displays the message:

Payment details are duly recorded

The screenshot shows the phpMyAdmin interface for the `incometax_system` database. The `payment` table is selected, and the SQL query `SELECT * FROM `payment`` has been executed. The table contains one row of data:

| CIN | Bank | Pay_date | Amount | Acc_no | taxid |
|-------|-----------|------------|--------|--------|-------|
| 24112 | HDFC Bank | 2021-12-02 | 500000 | 821345 | 10076 |

Schedule

The screenshot shows a web browser window with the URL `localhost/incometax/schedule.html`. The page has a header "Income Tax Website" and a modal form titled "Schedule". The form contains three input fields: "Skd_Date" with the value "11-12-2021", "Status" with the value "Confirmed", and "Tax ID" with the value "10076". A blue "Submit" button is at the bottom of the form.

The screenshot shows a web browser window with the URL `localhost/incometax/welcome.php`. The page displays the message "Your interview has been scheduled" in green text.

The screenshot shows the phpMyAdmin interface. The left sidebar shows the database structure with "incometax_system" selected. The main area shows the "schedule" table with the following data:

| Skd_Date | Status_confirmation | taxid |
|------------|---------------------|-------|
| 2021-12-11 | Confirmed | 10076 |

Codes

myprofile.php

```
<?php

$servername = "localhost";
$username = "root";
$password = "";

// Create connection

$conn = new mysqli($servername,$username, $password);

// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

echo "Connected successfully";


mysqli_select_db($conn,'incometax_system');
$query="INSERT INTO ";
mysqli_query($conn,$query);
$a = "";
if( isset( $_POST["txtName"])) {
    $a = $_POST["txtName"];
}
$b = "";
if( isset( $_POST["txtMiddleName"])) {
    $b = $_POST["txtMiddleName"];
}
$c= "";
if( isset( $_POST["txtLastName"])) {
    $c = $_POST["txtLastName"];
```

```

}

$d= "";

if( isset( $_POST["dob"])) {

    $d = $_POST["dob"];

}

$e = "";

if( isset( $_POST["txttaxid"])) {

    $e = $_POST["txttaxid"];

}

$f = "";

if( isset( $_POST["txtAddress"])) {

    $f = $_POST["txtAddress"];

}

$g = "";

if( isset( $_POST["ab"])) {

    $f = $_POST["ab"];

}

$h = "";

if( isset( $_POST["txtcity"])) {

    $h = $_POST["txtcity"];

}

$i = "";

if( isset( $_POST["txtdocid"])) {

    $i = $_POST["txtdocid"];

}


$query1="INSERT INTO `incometax_system`.`my_profile` (`taxid`, `Fname`, `Mname`,
`Lname`, `Gender`, `DOB`, `Address`, `City`, `Docid`) VALUES
('$e','$a','$b','$c','$g','$d','$f','$h','$i') ";

$res1=mysqli_query($conn,$query1);

if($res1)

```



```

{session_start();

$_SESSION['success_message'] = "Records saved successfully !!";

header("Location: welcome.php");

exit();}

else {printf("query1Errormessage: %s\n", $conn->error);}

?>

```

documents.php

```

<?php

$docid = $_POST['docid'];
$doctype = $_POST['doctype'];
$docstatus = $_POST['docstatus'];

// Database connection

$conn = new mysqli('localhost','root','','incometax_system');

if($conn->connect_error){

    echo "$conn->connect_error";

    die("Connection Failed : ". $conn->connect_error);

} else {

    $stmt = $conn->prepare("insert into document(Doc_id,Doc_type,Status) values(?, ?,
?");

    $stmt->bind_param("iss",$docid,$doctype,$docstatus);

    $execval = $stmt->execute();

    session_start();

    $_SESSION['success_message'] = "Document saved successfully.";

    header("Location: welcome.php");

    exit();

    $stmt->close();

    $conn->close();

```

```
}  
?>
```

login.php

```
<?php  
$servername = "localhost";  
$username = "root";  
$password = "";  
  
// Create connection  
$conn = new mysqli($servername,$username, $password);  
  
// Check connection  
if ($conn->connect_error) {  
    die("Connection failed: " . $conn->connect_error);  
}  
  
echo "Connected successfully";  
  
  
mysqli_select_db($conn,'incometax_system');  
$query="INSERT INTO ";  
mysqli_query($conn,$query);  
  
  
$a= "";  
if( isset( $_POST["userid"])) {  
    $a = $_POST["userid"];  
}  
  
$b = "";  
if( isset( $_POST["password"])) {  
    $b = $_POST["password"];  
}  
  
  
$query1="INSERT INTO `incometax_system`.`login` (`User_id`,`Password`) VALUES  
('$a','$b') ";
```

```

$res1=mysqli_query($conn,$query1);
if($res1)
{echo"query1success";}
else {printf("query1Errormessage: %s\n", $conn->error);}

?>

```

registration.php

```

<?php
$servername = "localhost";
$username = "root";
$password = "";
// Create connection
$conn = new mysqli($servername,$username, $password);
// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}
echo "Connected successfully";

mysqli_select_db($conn,'incometax_system');
$query="INSERT INTO ";
mysqli_query($conn,$query);
$a = "";
if( isset( $_POST["txtName"])) {
    $a = $_POST["txtName"];
}
$b = "";
if( isset( $_POST["txtMiddleName"])) {
    $b = $_POST["txtMiddleName"];
}

```

```

}

$c= "";

if( isset( $_POST["txtLastName"])) {

    $c = $_POST["txtLastName"];

}

$d= "";

if( isset( $_POST["userid"])) {

    $d = $_POST["userid"];

}

$e = "";

if( isset( $_POST["txttaxid"])) {

    $e = $_POST["txttaxid"];

}

$f = "";

if( isset( $_POST["phone"])) {

    $f = $_POST["phone"];

}

$g = "";

if( isset( $_POST["password"])) {

    $g = $_POST["password"];

}


$query1="INSERT INTO `incometax_system`.`registration` (`User_id`,`taxid`,`Phone_no`,`Fname`,`Mname`,`Lname`,`Password`) VALUES ('$d','$e','$f','$a','$b','$c','$g') ";

$res1=mysqli_query($conn,$query1);

if($res1)

{session_start();

    $_SESSION['success_message'] = "The User has been registered successfully !!";

    header("Location: welcome.php");

    exit();}

else {printf("query1ErrorMessage: %s\n", $conn->error);}

```

?>

bankaccount.php

```
<?php
```

```
$servername = "localhost";
```

```
$username = "root";
```

```
$password = "";
```

```
// Create connection
```

```
$conn = new mysqli($servername,$username, $password);
```

```
// Check connection
```

```
if ($conn->connect_error) {
```

```
    die("Connection failed: " . $conn->connect_error);
```

```
}
```

```
echo "Connected successfully";
```

```
mysqli_select_db($conn,'incometax_system');
```

```
$query="INSERT INTO ";
```

```
mysqli_query($conn,$query);
```

```
$a = ";
```

```
if( isset( $_POST["accountno"])) {
```

```
    $a = $_POST["accountno"];
```

```
}
```

```
$b = ";
```

```
if( isset( $_POST["bank"])) {
```

```
    $b = $_POST["bank"];
```

```
}
```

```
$c= ";
```

```
if( isset( $_POST["accountt"])) {
```

```
    $c = $_POST["accountt"];
```

```

}

$d= "";

if( isset( $_POST["bifsc"])) {

    $d = $_POST["bifsc"];

}

$e = "";

if( isset( $_POST["txttaxid"])) {

    $e = $_POST["txttaxid"];

}


$query1="INSERT INTO `incometax_system`.`bank_account` (`Acc_no`,`Bank`,
`Acc_type`,`BIFSC`,`taxid`) VALUES ('$a','$b','$c','$d','$e') ";

$res1=mysqli_query($conn,$query1);

if($res1)

{session_start();

    $_SESSION['success_message'] = "Your bank account details have been noted ";

    header("Location: welcome.php");

    exit();}

else {printf("query1Errormessage: %s\n", $conn->error);}

?>

```

payment.php

```

<?php

$servername = "localhost";

$username = "root";

$password = "";

// Create connection

$conn = new mysqli($servername,$username, $password);

// Check connection

if ($conn->connect_error) {

```

```

die("Connection failed: " . $conn->connect_error);
}
echo "Connected successfully";

mysqli_select_db($conn,'incometax_system');
$query="INSERT INTO ";
mysqli_query($conn,$query);
$a = "";
if( isset( $_POST["cin"])) {
    $a = $_POST["cin"];
}
$b = "";
if( isset( $_POST["bank"])) {
    $b = $_POST["bank"];
}
$c= "";
if( isset( $_POST["payd"])) {
    $c = $_POST["payd"];
}
$d= "";
if( isset( $_POST["amount"])) {
    $d = $_POST["amount"];
}
$e = "";
if( isset( $_POST["accountno"])) {
    $e = $_POST["accountno"];
}
$f = "";
if( isset( $_POST["txttaxid"])) {
    $f = $_POST["txttaxid"];
}

```

```

}

$query1="INSERT INTO `incometax_system`.`payment` (`CIN`, `Bank`, `Pay_date`,
`Amount`, `Acc_no`, `taxid`) VALUES ('$a','$b','$c','$d','$e','$f')";

$res1=mysqli_query($conn,$query1);

if($res1)
{
    session_start();

    $_SESSION['success_message'] = "Payment details are duly recorded";

    header("Location: welcome.php");

    exit();}

else {printf("query1ErrorMessage: %s\n", $conn->error);}

?>

```

schedule.php

```

<?php

$servername = "localhost";

$username = "root";

$password = "";

// Create connection

$conn = new mysqli($servername,$username, $password);

// Check connection

if ($conn->connect_error) {

    die("Connection failed: " . $conn->connect_error);

}

echo "Connected successfully";


mysqli_select_db($conn,'incometax_system');

$query="INSERT INTO ";

mysqli_query($conn,$query);

$a = ";

```



```

if( isset( $_POST["skd"])) {
    $a = $_POST["skd"];
}
$b = "";
if( isset( $_POST["status"])) {
    $b = $_POST["status"];
}
$c = "";
if( isset( $_POST["txttaxid"])) {
    $c = $_POST["txttaxid"];
}

$query1="INSERT INTO `incometax_system`.`schedule` (`Skd_Date`,
`Status_confirmation`, `taxid`) VALUES ('$a','$b','$c')";
$res1=mysqli_query($conn,$query1);
if($res1)
{
    session_start();
    $_SESSION['success_message'] = "Your interview has been scheduled";
    header("Location: welcome.php");
    exit();}
else {printf("query1ErrorMessage: %s\n", $conn->error);}

?>

```

welcome.php

```

<?php session_start(); ?>

<?php if (isset($_SESSION['success_message']) &&
!empty($_SESSION['success_message'])) { ?>

    <div class="success-message" style="margin-bottom: 20px;font-size: 20px;color:
green;"><?php echo $_SESSION['success_message']; ?></div>

```

```

<?php
unset($_SESSION['success_message']);
}
?>

```

Data Dictionary

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incometax_system

bank_account

| Column | Type | Null | Default | Links to | Comments | Media type |
|------------------|-------------|------|---------|---------------------|----------|------------|
| Acc_no (Primary) | int(15) | No | | | | |
| Bank | varchar(20) | Yes | NULL | | | |
| Acc_type | varchar(15) | Yes | NULL | | | |
| BIFSC | varchar(15) | Yes | NULL | | | |
| taxid | int(15) | Yes | NULL | my_profile -> taxid | | |

Indexes

| Keyname | Type | Unique | Packed | Column | Cardinality | Collation | Null | Comment |
|-------------|-------|--------|--------|--------|-------------|-----------|------|---------|
| PRIMARY | BTREE | Yes | No | Acc_no | 0 | A | No | |
| fk_to_taxid | BTREE | No | No | taxid | 0 | A | Yes | |

document

| Column | Type | Null | Default | Links to | Comments | Media type |
|------------------|-------------|------|---------|----------|----------|------------|
| Doc_id (Primary) | int(10) | No | | | | |
| Doc_type | varchar(20) | Yes | NULL | | | |
| Status | varchar(15) | Yes | NULL | | | |

Indexes

| Keyname | Type | Unique | Packed | Column | Cardinality | Collation | Null | Comment |
|---------|-------|--------|--------|--------|-------------|-----------|------|---------|
| PRIMARY | BTREE | Yes | No | Doc_id | 0 | A | No | |

login

| Column | Type | Null | Default | Links to | Comments | Media type |
|----------|-------------|------|---------|-------------------------|----------|------------|
| User_id | int(10) | Yes | NULL | registration -> User_id | | |
| Password | varchar(10) | Yes | NULL | | | |

Indexes

| Keyname | Type | Unique | Packed | Column | Cardinality | Collation | Null | Comment |
|---------------|-------|--------|--------|---------|-------------|-----------|------|---------|
| fk_to_User_id | BTREE | No | No | User_id | 0 | A | Yes | |

my_profile

| Column | Type | Null | Default | Links to | Comments | Media type |
|--------|------|------|---------|----------|----------|------------|
|--------|------|------|---------|----------|----------|------------|

localhost/phpmyadmin/index.php?route=/database/data-dictionary&db=incometax_system&goto=index.php%3Froute%3D%2Fdatabase%2Fstruc... 1/3

localhost/phpmyadmin/index.php?route=/database/data-dictionary&db=incometax_system&goto=index.php%3Froute%3D%2Fdatabase%2Fstruc... 1/3

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| | | | | | | |
|--------------------------|-------------|-----|------|--------------------|--|--|
| taxid (<i>Primary</i>) | int(15) | No | | | | |
| Fname | varchar(10) | Yes | NULL | | | |
| Mname | varchar(10) | Yes | NULL | | | |
| Lname | varchar(10) | Yes | NULL | | | |
| Gender | char(5) | Yes | NULL | | | |
| DOB | date | Yes | NULL | | | |
| Address | varchar(20) | Yes | NULL | | | |
| City | varchar(15) | Yes | NULL | | | |
| Docid | int(10) | Yes | NULL | document -> Doc_id | | |

Indexes

| Keyname | Type | Unique | Packed | Column | Cardinality | Collation | Null | Comment |
|-------------|-------|--------|--------|--------|-------------|-----------|------|---------|
| PRIMARY | BTREE | Yes | No | taxid | 0 | A | No | |
| fk_to_Docid | BTREE | No | No | Docid | 0 | A | Yes | |

payment

| Column | Type | Null | Default | Links to | Comments | Media type |
|------------------------|-------------|------|---------|------------------------|----------|------------|
| CIN (<i>Primary</i>) | int(15) | No | | | | |
| Bank | varchar(20) | Yes | NULL | | | |
| Pay_date | date | Yes | NULL | | | |
| Amount | int(10) | Yes | NULL | | | |
| Acc_no | int(15) | Yes | NULL | bank_account -> Acc_no | | |
| taxid | int(15) | Yes | NULL | my_profile -> taxid | | |

Indexes

| Keyname | Type | Unique | Packed | Column | Cardinality | Collation | Null | Comment |
|-------------|-------|--------|--------|--------|-------------|-----------|------|---------|
| PRIMARY | BTREE | Yes | No | CIN | 0 | A | No | |
| fk_to_accno | BTREE | No | No | Acc_no | 0 | A | Yes | |
| fk_to_tax | BTREE | No | No | taxid | 0 | A | Yes | |

registration

| Column | Type | Null | Default | Links to | Comments | Media type |
|----------------------------|-------------|------|---------|---------------------|----------|------------|
| User_id (<i>Primary</i>) | int(10) | No | | | | |
| taxid | int(15) | Yes | NULL | my_profile -> taxid | | |
| Phone_no | int(10) | Yes | NULL | | | |
| Fname | varchar(10) | Yes | NULL | | | |
| Mname | varchar(10) | Yes | NULL | | | |
| Lname | varchar(10) | Yes | NULL | | | |
| Password | varchar(10) | Yes | NULL | | | |

localhost/phpmyadmin/index.php?route=/database/data-dictionary&db=incometax_system&goto=index.php%3Froute%3D%2Fdatabase%2Fstruc... 2/3

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Indexes

| Keyname | Type | Unique | Packed | Column | Cardinality | Collation | Null | Comment |
|-------------|-------|--------|--------|---------|-------------|-----------|------|---------|
| PRIMARY | BTREE | Yes | No | User_id | 0 | A | No | |
| fk_to_taxid | BTREE | No | No | taxid | 0 | A | Yes | |

schedule

| Column | Type | Null | Default | Links to | Comments | Media type |
|---------------------|-------------|------|---------|---------------------|----------|------------|
| Skd_Date | date | Yes | NULL | | | |
| Status_confirmation | varchar(20) | Yes | NULL | | | |
| taxid | int(15) | Yes | NULL | my_profile -> taxid | | |

Indexes

| Keyname | Type | Unique | Packed | Column | Cardinality | Collation | Null | Comment |
|-------------|-------|--------|--------|--------|-------------|-----------|------|---------|
| fk_to_taxes | BTREE | No | No | taxid | 0 | A | Yes | |

Result

This proposed system will benefit the government as it would have the ability to maintain the data more effectively and the tax organization is seen as more transparent in carrying out its duties. The tax payer will be more receptive to taxation as the whole process is flexible and it doesn't require visits to tax office. This system looks at how tax payment process can be encouraged through simplification and increased efficiency in payment processing. Individuals can depend on this platform to carry out their duties as citizens