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## E-Payment System for Municipality

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### ABSTRACT

*Local bodies are classified into municipal co-operation, municipalities of different grades depending upon the population and income of the urban local body. Local bodies like municipalities need to collect different kinds of information from citizens for applications like marriage, death, birth, ration card etc. But it's difficult to store all information and it will take a long time for processing.*

*To solve this problem we have to develop a web-based system "E-Payment System for Municipality". By using this system which we can collect tax information from different authorities based on their house num and house owner name. Data are stored in databases and the user has a unique user-id and password. The user can log in and check the data.*

**Keywords:** E-Payment System, Municipality, Asp.Net, Microsoft Visual Studio2010.

### 1. INTRODUCTION

Client-server architecture is a communication between client and server .client were requesting to the server for a particular message or file or resource. Server was accepting the request and processing the request. Then return the reply message to the client. This project developed for it company for a new communication method. In this project, the admin can add the departments and each employee can register with the appropriate departments. The registered employees can log in to the system, and they can send a message to same department or employee of different departments. We can also have broadcasting and file sharing. Through broadcasting, we can send one message to many employees. In file sharing, we can share any type of files like audio, video, image and documents.

### 2. ANALYSIS OF PROBLEM

The existing system is a manual system. Here the employees need to save the information in the form of excel sheets or Disk Drives. There is no sharing is possible if the data is in the form of paper or Disk drives. The manual system gives us very less security for saving data; some data may be lost due to is management. It's a limited system and fewer users friendly. Searching for particular information is very critical it takes a lot of time. Gathering information of different sources is not an easy job, data will be mismanaged. Calculating different bills manually going to be as a process of mistake. There is no interface to provide various bills in the existing system. In the existing system, citizen get the bill's information manually, in various authorities like water board, electricity department, property tax department etc.

### 3. PROPOSED WORK

The development of this new system contains the following activities, which try to automate the entire process keeping in the view of database integration approach. User Friendliness is provided in the application with various controls provided by system Rich User Interface. The system makes the overall project management much easier and flexible. It can be accessed over the Intranet. The employee information can be stored in a centralized database which can be maintained by the system. This can give the good security of user information because data is not in the client machine. Authentication is provided for this application only registered Users can access. There is no risk of data management at any level while the project development is under process.

- login
- birth certificate request
- death certificate request
- marriage certificate request
- ration card request
- request approval
- certificate download

### SCREEN SHORTS



Fig .1 Login

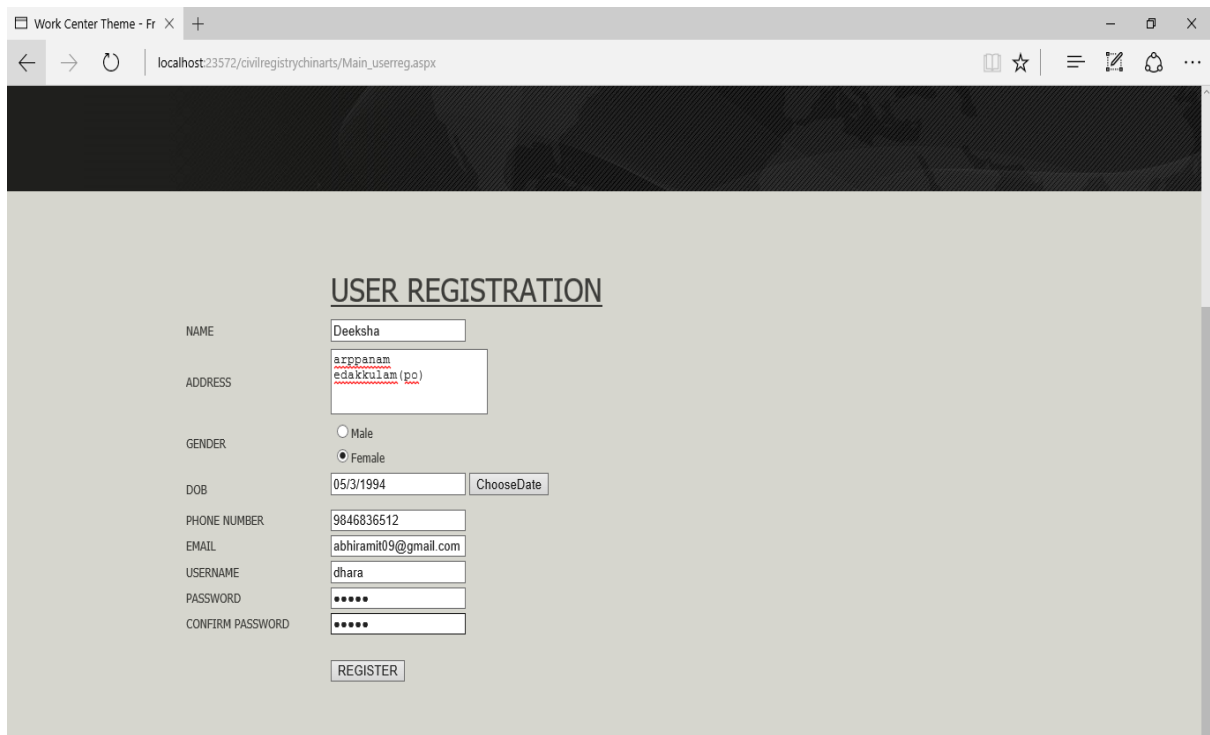


Fig. 2 User Registrations

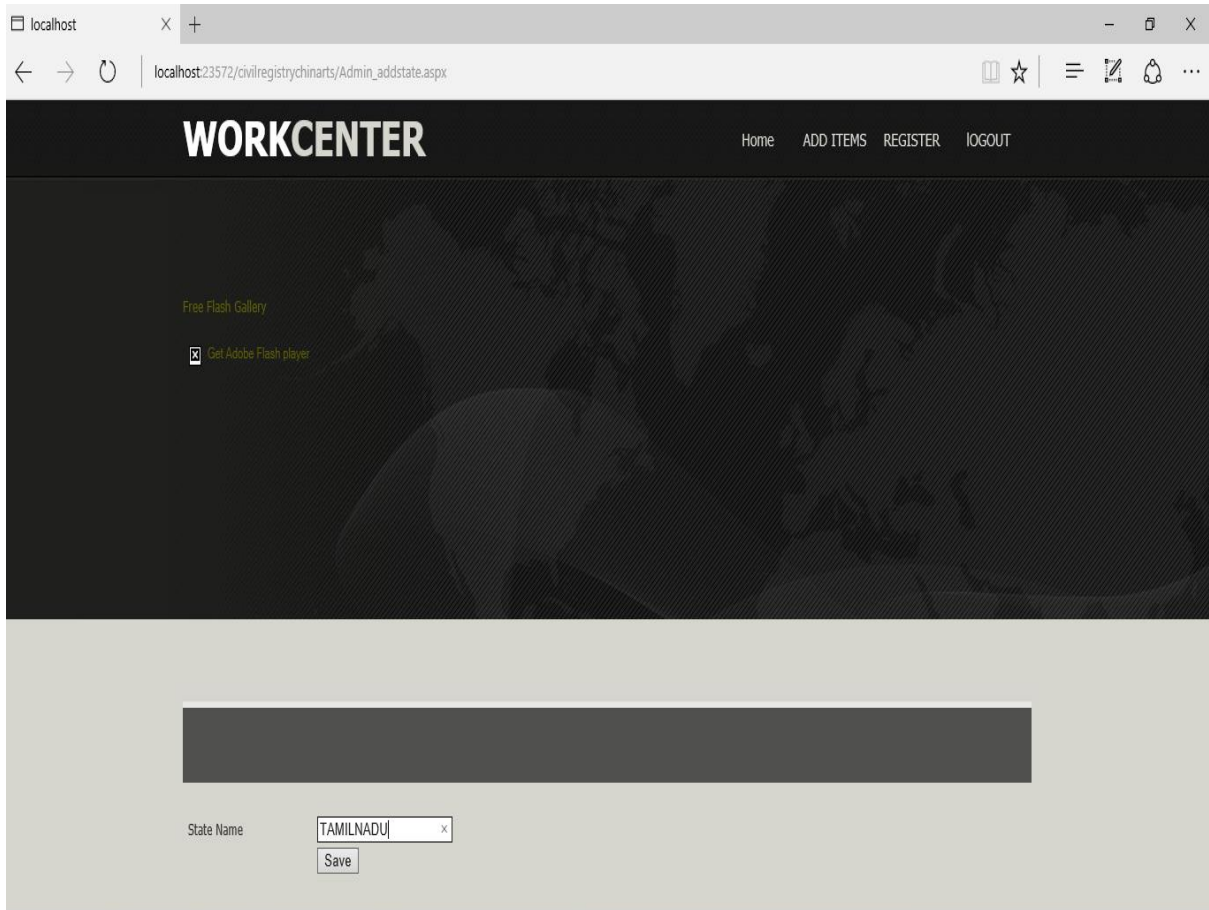


Fig. 3 Admin Home Page

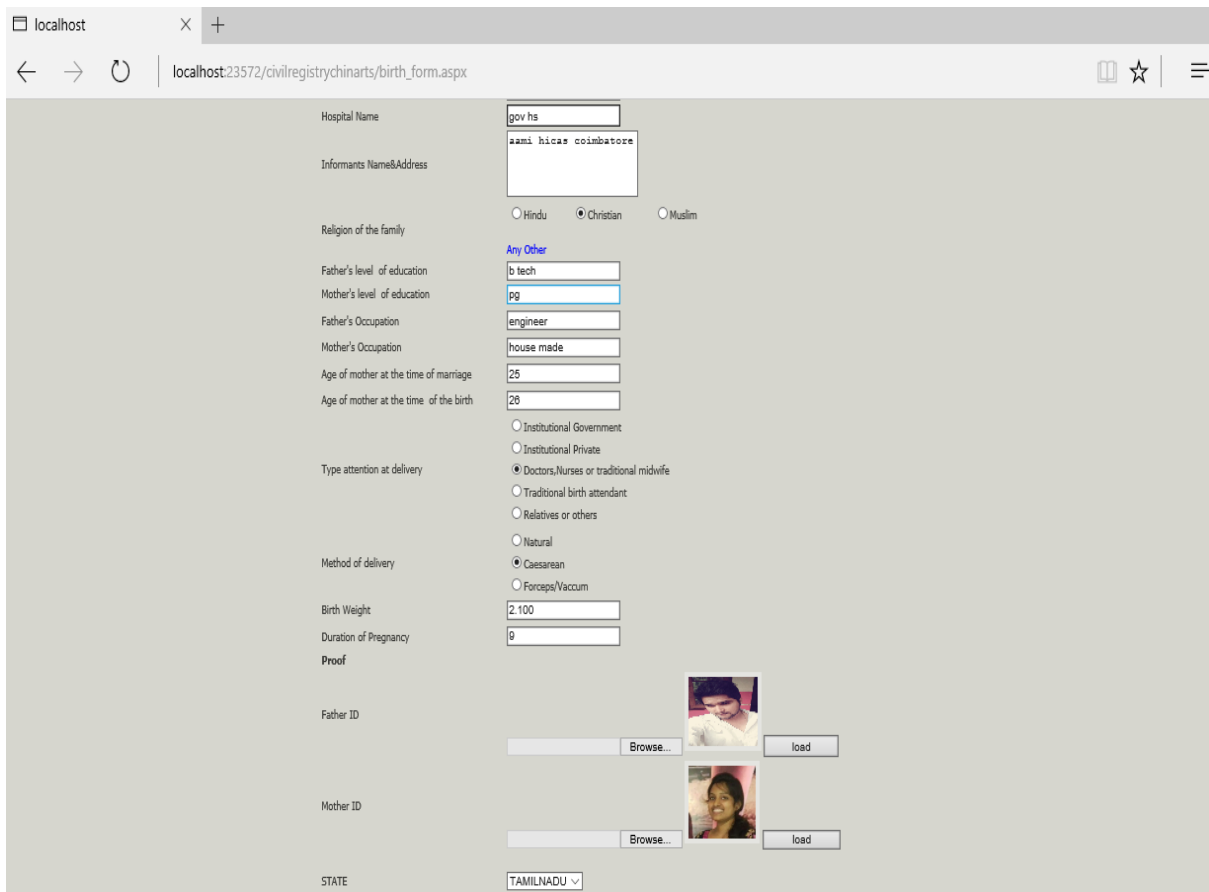


Fig. 4 Birth Application

### STAFF REGISTRATION

NAME

GENDER  MALE  FEMALE

ChooseDate

ADDRESS ADDRESS

PH NO

EMAIL

STATE

DISTRICT

TALUK

PANCHAYATH/MUNICIPALITY/CORPORATION

DEPARTMENT

USERNAME

localhost localhost:23572/civilregistrychinarts/birth\_form.aspx

Father's level of education

Mother's level of education

Father's Occupation

Mother's Occupation

Age of mother at the time of marriage

Age of mother at the time of the birth

Type attention at delivery  Institutional Government  Institutional Private  Doctors,Nurses or traditional midwife  Traditional birth attendant  Relatives or others

Method of delivery

Birth Weight

Duration of Pregnancy

Proof

Father ID

Mother ID

STATE

DISTRICT

TALUK

PANCHAYATH/MUNICIPALITY/CORPORATION

This site says...

Saved Successfully

Fig. 5 Staff Registration

localhost localhost:23572/civilregistrychinarts/Deathform.aspx

Date of Deth

Name of the Deceased

Father's Name

Mother's Name

Address of deceased

Sex of deceased  Male  Female

Age of deceased

Place of Death

(a) Hospital Name

(b) House - Address

(c) Other place

Informants name and address

Town or village of residence of deceased

(a) Name of corporation/municipality

(c) Name of the district

(d) Name of the state

Religion  Hindu  Christian  Muslim [Any Other](#)

Occupation of deceased

Institutional

Fig. 6 Death Application

Fig. 7 Marriage Application

Name	Relation	Age
raviraj	husband	50
deeksha	daughter	22
divya	daughter	26
vidhya	daughter	20
pommi	daughter	24

Fig. 8 Ration Card Application

Death id	Date of birth	Name of deceased	Father Name	Mother name	Address of deceased	Sex	Age	Place of death	Name and address	Residence	Religion	Occupation of deceased	Medical attention	Medical certification	Cause of death	Hospital certification	Approve	REJECT
15	10/12/2017	archana	raman	anitha	raman nivas	Male	56	pvs	anupama	kozhikode,koyilandy,kerala	Hindu	housemade	Institutional	yes	attack	scrn hom.PNG	Select	Delete

Fig. 9 Death Certificate Approval

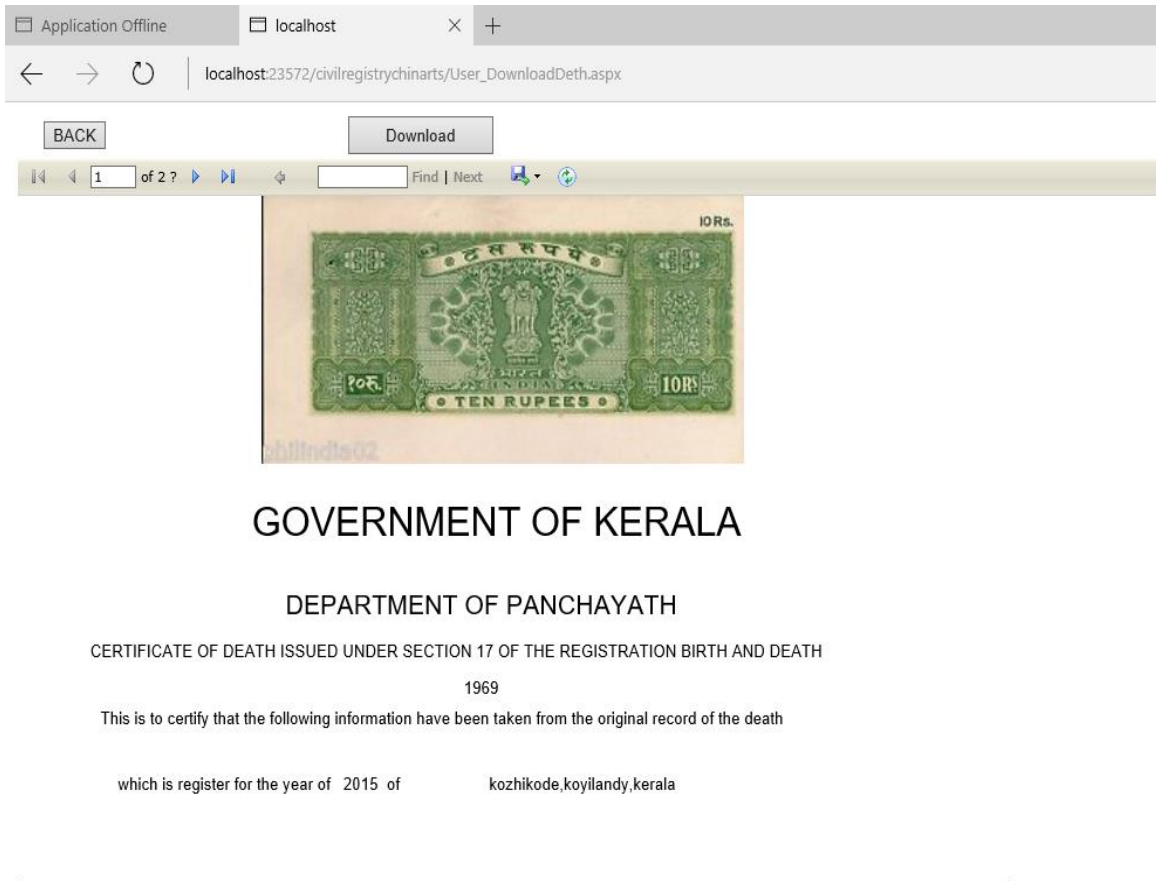


Fig.10 Death Certificate Download

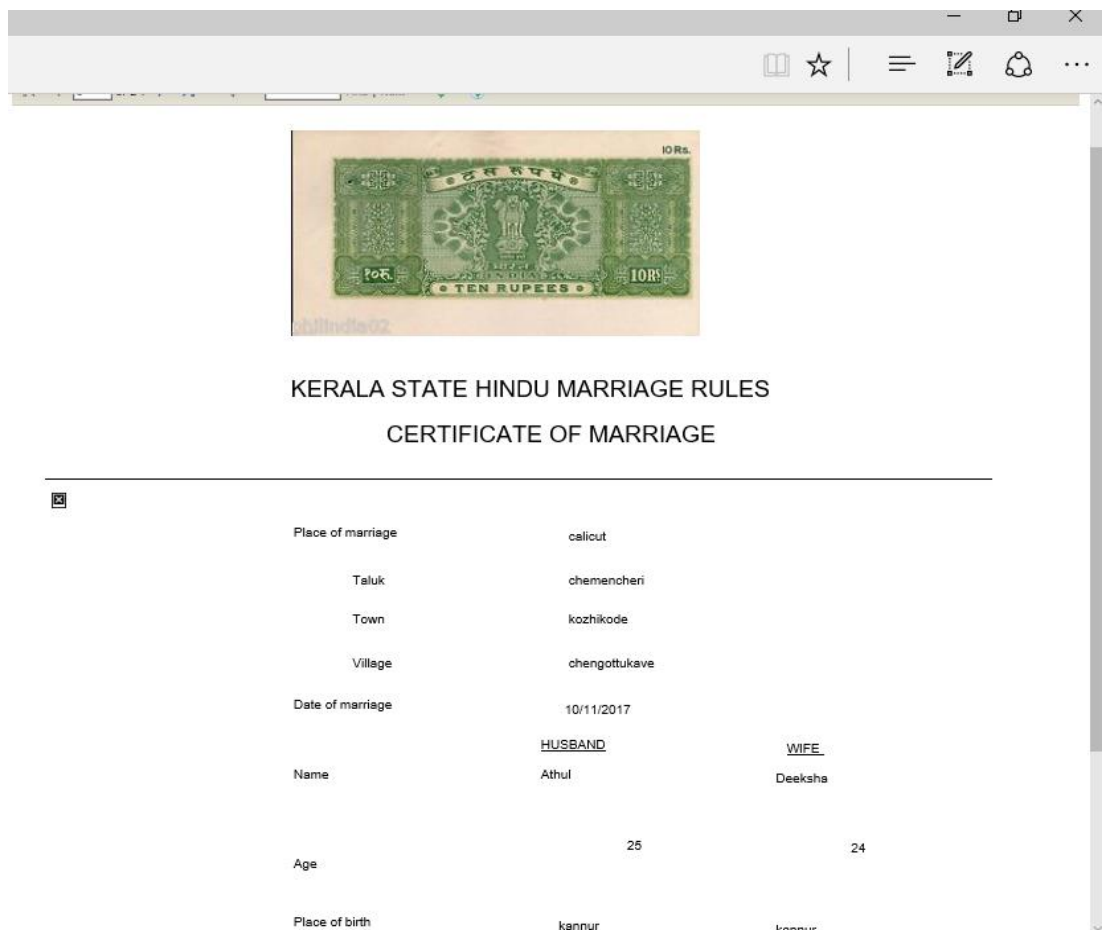


Fig. 11 Marriage Certificate Download

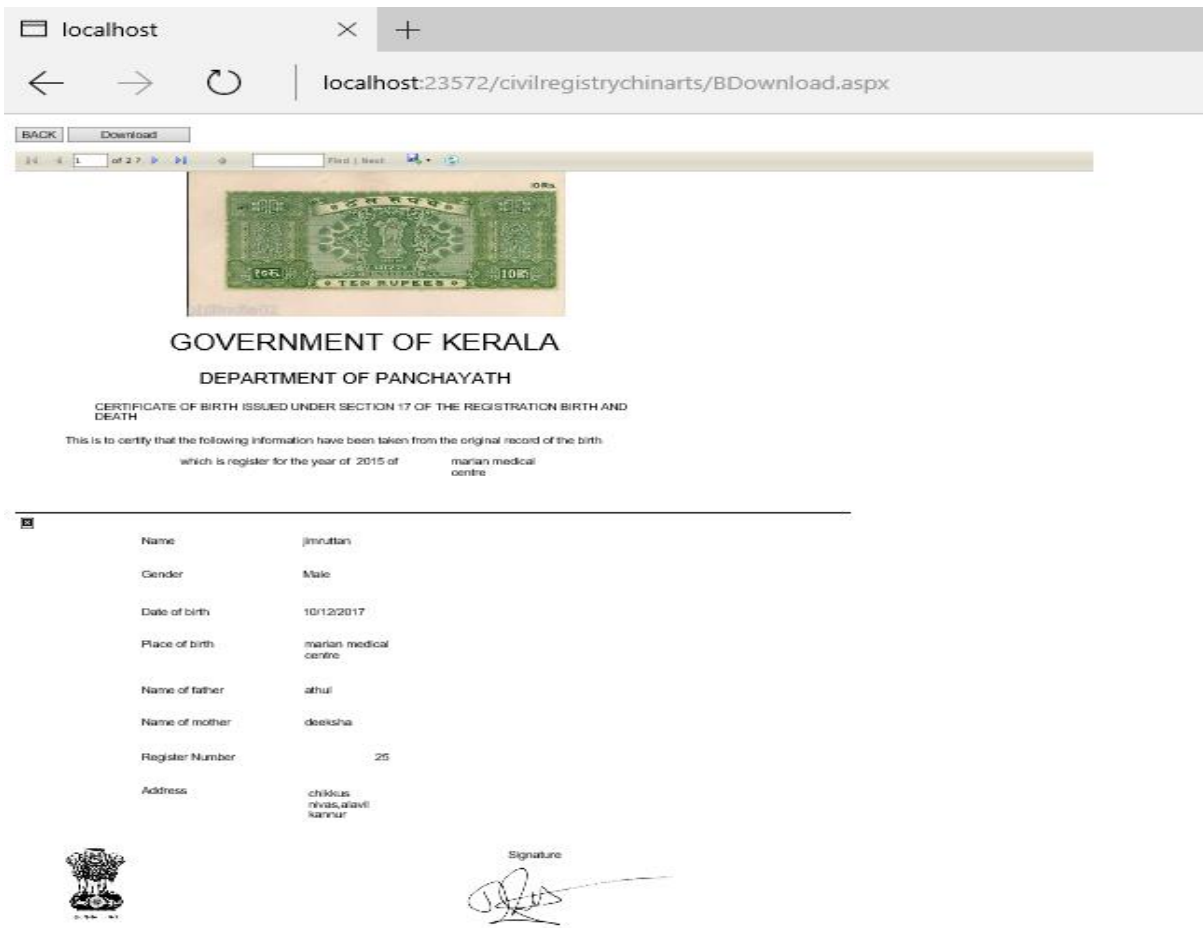


Fig. 12 Birth Certificate Download

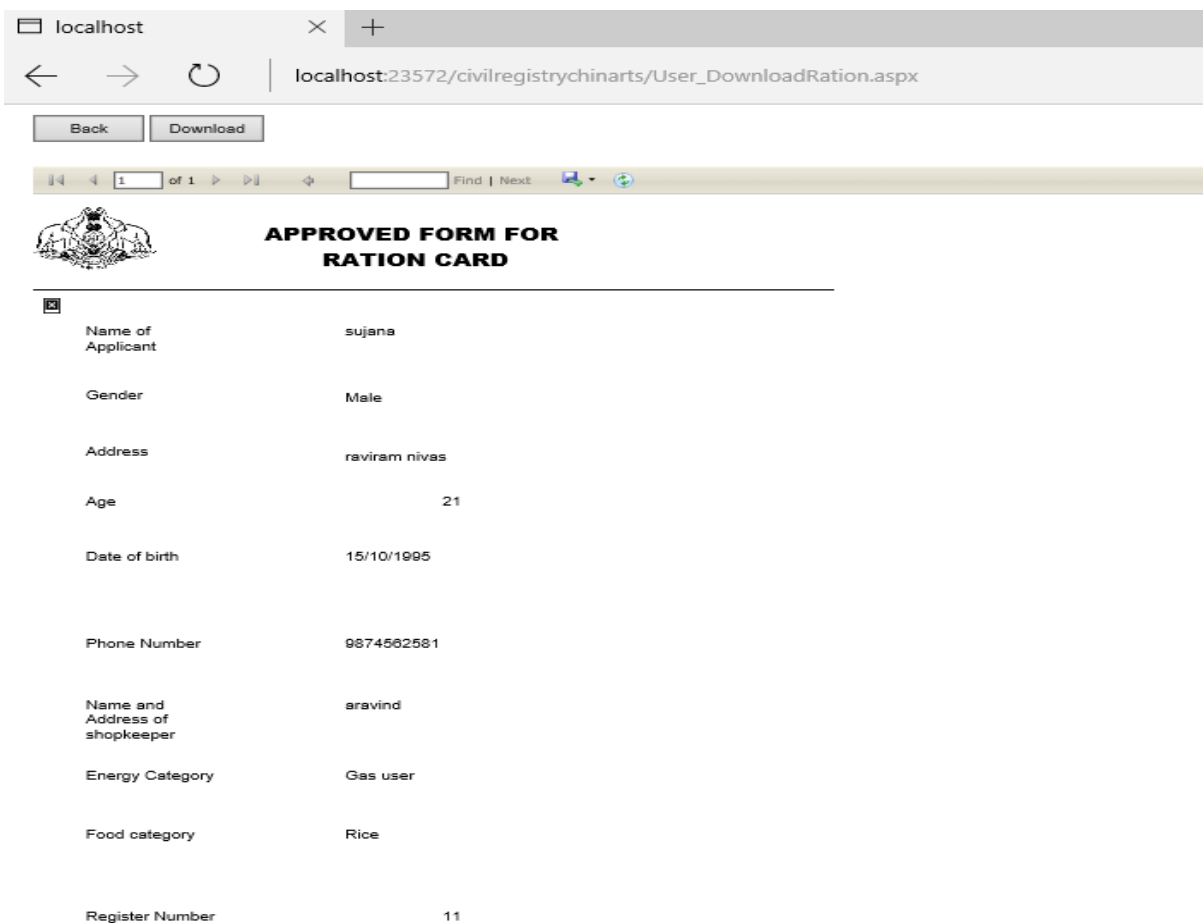


Fig. 13 Ration Card Download

**Table Design**

Table name: **Login\_tbl**

Primary Key : Username

SLNO	FIELD NAME	DATA TYPE	DESCRIPTION
1	Username	nvarchar(50)	name of user
2	Password	nvarchar(50)	password
3	Usertype	nvarchar(50)	Type of user

**Table Name: User\_Reg\_Table**

Primary Key : userid

SLNO	FIELD NAME	DATA TYPE	DESCRIPTION
1	Userid	Int	User id
2	Name	nvarchar(50)	Name of user
3	Address	nvarchar(50)	Address of user
4	Gender	nvarchar(50)	Gender
5	Dob	nvarchar(50)	Bate of birth
6	Phonenumber	decimal(18, 0)	Phone number
7	Emailed	nvarchar(50)	Email id
8	Username	nvarchar(50)	User name

**Table Name: Staff\_Reg\_Table**

Primary Key : sid

SLNO	FIELD NAME	DATA TYPE	DESCRIPTION
1	Sid	nvarchar(50)	Staff id
2	Sname	nvarchar(50)	Staff name
3	Gender	nvarchar(MAX)	Gender
4	Dob	nvarchar(50)	Date of birth
5	Address	nvarchar(50)	Address
6	ph_no	nvarchar(50)	Phone number
7	Email	nchar(10)	Email
8	StateID	nvarchar(50)	State id
9	DistrictId	nvarchar(50)	District id
10	TalukID	nvarchar(50)	Taluk id
11	Pmcid	nvarchar(50)	Panjayath/municipality/corporation id
12	dept_id	nvarchar(50)	Department id
13	Username	nvarchar(50)	User name of staff

**Table Name: State\_tbl**

Primary Key: StateID

SLNO	FIELD NAME	DATA TYPE	DESCRIPTION
1	StateID	Int	State id
2	StateName	nvarchar(50)	State name

**Table Name: Taluk\_tbl**  
Primary Key: TalukID

SLNO	FIELD NAME	DATA TYPE	description
1	TalukID	Int	Taluk id
2	TalukName	nvarchar(50)	Taluk name
3	DistictID	Int	District id
4	StateID	Int	State id

**Table Name: District\_tbl**  
Primary Key: DistrictId

SLNO	FIELD NAME	DATA TYPE	description
1	DistrictId	Int	District id
2	DistrictName	nvarchar(50)	District name
3	StateID	Int	State id

**Table Name: Ration\_card\_tbl**  
Primary Key: rid

SLNO	FIELD NAME	DATA TYPE	Description
1	Rid	Int	Ration card id
2	Rname	nvarchar(50)	Ration card name
3	Rgender	nvarchar(50)	Ration card requester gender
4	Rfname	nvarchar(50)	Ration card requester father name
5	Rmname	nvarchar(50)	Ration card requester mother name
6	Rhusname	nvarchar(50)	Ration card requester hubend name
6	Rnationality	nvarchar(50)	Ration card requester nationality
7	rUID	nvarchar(50)	User id
8	rEID	nvarchar(50)	Email id
9	Raddr	nvarchar(MAX)	Address
10	Remailid	nvarchar(50)	Email id
11	Rphn	nvarchar(50)	Phone number
12	rnme_addr_shopkeeper	nvarchar(MAX)	Shopkeeper name address
13	Rdob	nvarchar(50)	Date of birth

14	Rage	Int	Age of requester
15	Rmaritalstatus	nvarchar(50)	Marital status of requester
16	Rfcategory	nvarchar(50)	Category
17	Recategory	nvarchar(50)	E category
18	Rqualification	nvarchar(50)	Qualification
19	Roccupation	nvarchar(50)	Occupation
20	Rcardnum	nvarchar(50)	Card number
21	Rhldnum	nvarchar(50)	Hold number
22	Rprevcardnum	nvarchar(50)	Previous card number
23	Ridproof	nvarchar(50)	Id proof
24	Resiproof	nvarchar(50)	Residential proof
25	Othermanddoc	nvarchar(50)	Other documentation
26	nati_proof	nvarchar(50)	Nativity proof
27	StateID	nvarchar(50)	State id
28	DistrictId	nvarchar(50)	District id
29	TalukID	nvarchar(50)	Taluk id
30	Pmcid	nvarchar(50)	Panjayath/municipality/corporation id
31	Status	nvarchar(50)	Status
32	user_id	nvarchar(50)	User id

**Table Name: Marriage\_certi**  
Primary Key: marr\_id

SLNO	FIELD NAME	DATA TYPE	description
1	marr_id	Int	Marriage id
2	rec_on	nvarchar(50)	Received on
3	intials_on	nvarchar(50)	Initials on local registrar
4	Place	nvarchar(50)	Place of marriage
5	Taluk	nvarchar(50)	Taluk
6	Town	nvarchar(50)	Town
7	Village	nvarchar(50)	Village
8	Dom	nvarchar(50)	Date of marriage
9	hus_name	nvarchar(50)	Husband name
10	wif_name	nvarchar(50)	Wife name
11	hus_age	Int	Husband age
12	wife_age	Int	Wife age
13	hus_bp	nvarchar(50)	Husband birth proof
14	wif_proof	nvarchar(50)	Wife birth proof
15	guard_wife	nvarchar(50)	Graduation of wife
16	wit_name_a	nvarchar(50)	Name of person a
17	wit_add_a	nvarchar(50)	Address of person a
18	wit_name_b	nvarchar(50)	Name of person b
19	wit_add_b	nvarchar(50)	Name of person b
20	Panchid	nvarchar(50)	Panchayath id
21	Userid	nvarchar(50)	User id
22	Status	nvarchar(50)	Satus
23	Deptid	nvarchar(50)	Department id

**Table Name: Marriage\_certi**  
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1	marr_id	Int	Marriage id
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5	Taluk	nvarchar(50)	Taluk
6	Town	nvarchar(50)	Town
7	Village	nvarchar(50)	Village

8	Dom	nvarchar(50)	Date of marriage
9	hus_name	nvarchar(50)	Husband name
10	wif_name	nvarchar(50)	Wife name
11	hus_age	Int	Husband age
12	wife_age	Int	Wife age
13	hus_bp	nvarchar(50)	Husband birth proof
14	wif_proof	nvarchar(50)	Wife birth proof
15	guard_wife	nvarchar(50)	Graduation of wife
16	wit_name_a	nvarchar(50)	Name of person a
17	wit_add_a	nvarchar(50)	Address of person a
18	wit_name_b	nvarchar(50)	Name of person b
19	wit_add_b	nvarchar(50)	Name of person b
20	Panchid	nvarchar(50)	Panchayath id
21	Userid	nvarchar(50)	User id
22	Status	nvarchar(50)	Satus
23	Deptid	nvarchar(50)	Department id

**Table Name: Marriage\_certi**  
Primary Key: marr\_id

SLNO	FIELD NAME	DATA TYPE	Description
1	Userid	Int	User id
2	Dob	nvarchar(50)	Date of birth
3	Gender	nvarchar(50)	Gender
4	name_if_any	nvarchar(50)	Name of if any
5	father_name	nvarchar(50)	Father name
6	mom_name	nvarchar(50)	Mother name
7	Address	varchar(MAX)	Address
8	Pob	nvarchar(50)	Place of birth
9	hospital_name	nvarchar(50)	Hospital name
10	info_name_add	varchar(MAX)	Inform name address
11	Religion	nvarchar(50)	Religion
12	father_edu	Nvarchar(50)	Father education
13	mom_edu	nvarchar(50)	Mother education

14	father_occ	nvarchar(50)	Father occupations
15	mom_occ	nvarchar(50)	Mother occupation
16	age_mom_marr	Int	Mother age of marriage
17	age_mom_birth	Int	mother date of birth
18	type_attent	nvarchar(50)	Attend type
19	meth_deli	nvarchar(50)	Method of delivery
20	user_name	nvarchar(50)	User name
21	Status	nvarchar(50)	Status
22	birth_wght	decimal(18, 0)	Birth weight
23	duration_deli	decimal(18, 0)	Duration of delivery
24	father_id	nvarchar(50)	Father id
25	mom_id	nvarchar(50)	Mother id
26	Panchid	nvarchar(50)	Panchayath id
27	Deptid	nvarchar(50)	Department id

**Table Name: birth\_form**  
Primary Key: user\_id

SLNO	FIELD NAME	DATA TYPE	Description
1	Userid	Int	User id
2	Dob	nvarchar(50)	Date of birth
3	Gender	nvarchar(50)	Gender
4	name_if_any	nvarchar(50)	Name of if any
5	father_name	nvarchar(50)	Father name
6	mom_name	nvarchar(50)	Mother name
7	Address	varchar(MAX)	Address
8	Pob	nvarchar(50)	Place of birth
9	hospital_name	nvarchar(50)	Hospital name
10	info_name_add	varchar(MAX)	Inform name address
11	Religion	nvarchar(50)	Religion
12	father_edu	Nvarchar(50)	Father education
13	mom_edu	nvarchar(50)	Mother education
14	father_occ	nvarchar(50)	Father occupations
15	mom_occ	nvarchar(50)	Mother occupation
16	age_mom_marr	Int	Mother age of marriage
17	age_mom_birth	Int	mother date of birth

18	type_attent	nvarchar(50)	Attend type
19	meth_deli	nvarchar(50)	Method of delivery
20	user_name	nvarchar(50)	User name
21	Status	nvarchar(50)	Status
22	birth_wght	decimal(18, 0)	Birth weight
23	duration_deli	decimal(18, 0)	Duration of delivery
24	father_id	nvarchar(50)	Father id
25	mom_id	nvarchar(50)	Mother id
26	Panchid	nvarchar(50)	Panchayath id
27	Deptid	nvarchar(50)	Department id

**Table Name: Pcm\_tbl**

Primary Key: pmcid

SLNO	FIELD NAME	DATA TYPE	Description
1	Pmcid	Int	Panchayath/municipality/corporation id
2	pmc_name	nvarchar(50)	Panchayath/municipality/corporation Name
3	StateID	nvarchar(50)	State id
4	DistrictId	nvarchar(50)	District id
5	TalukID	nvarchar(50)	Taluk id

**Table Name: Municipality\_tbl**

Primary Key: municipalityID

SLNO	FIELD NAME	DATA TYPE	description
1	MunicipalityID	Int	Municipality id
2	MunicipalityName	nvarchar(50)	Municipality name
3	TalukID	Int	Taluk id
4	DistrictId	Int	District id
5	StateId	Int	State id

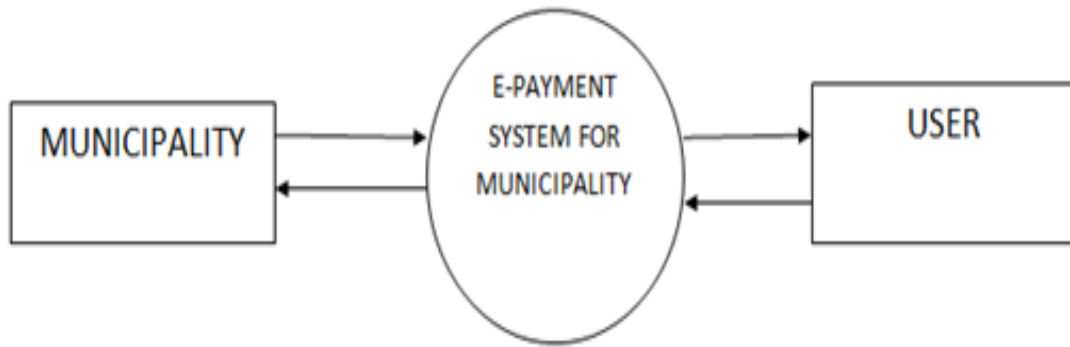


Fig 14: Level 0

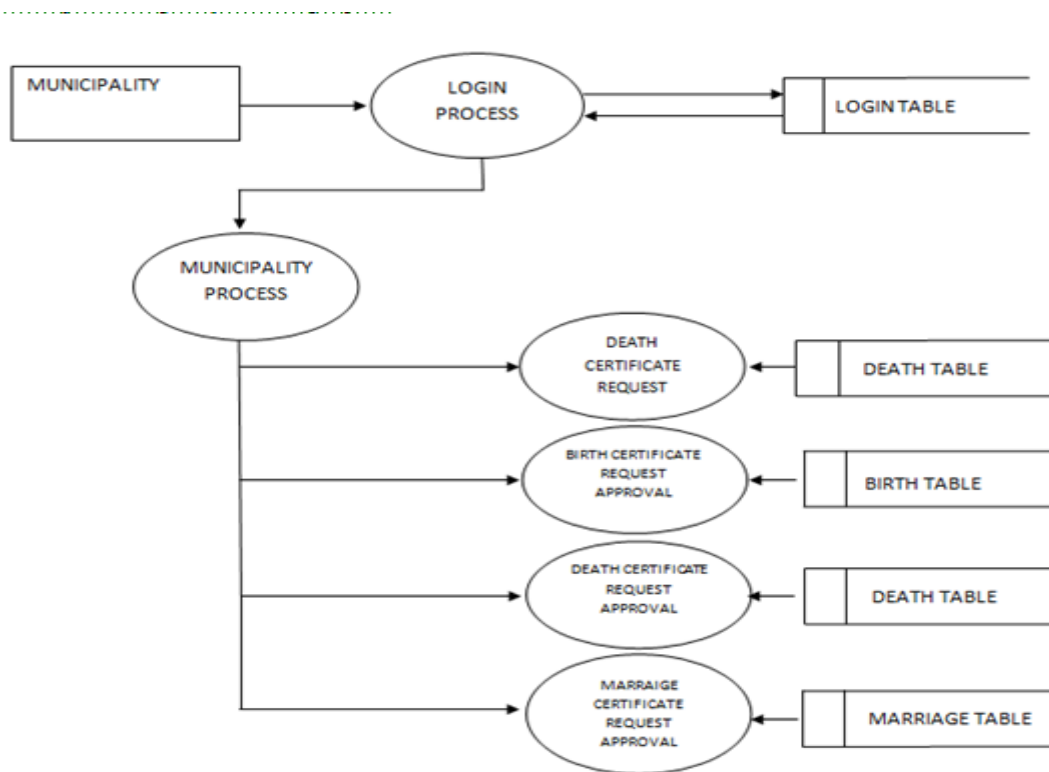


Fig 15: Level 1

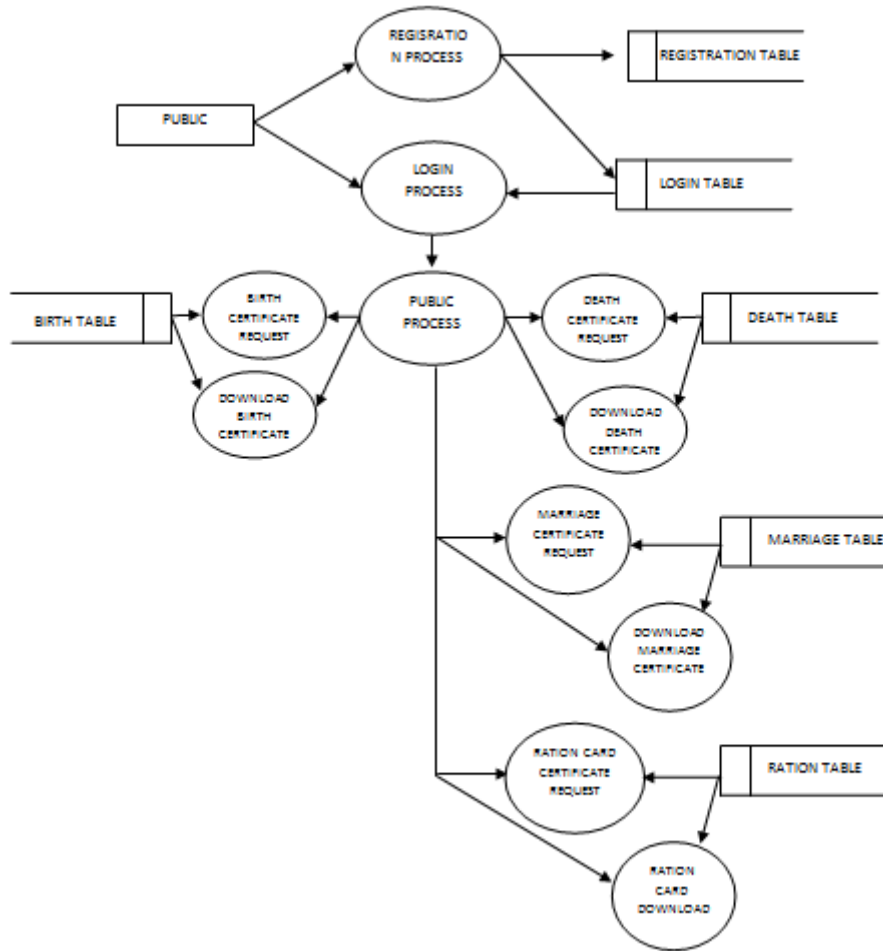


Fig 16: Level 2

#### 4. CONCLUSION

E-PAYMENT SYSTEM FOR MUNICIPALITY is a web application, which is very useful for municipality works completion online. Under Municipal Corporation the employee is categorized like birth certificate, marriage certificate, death certificate, ration card certificate approval. The employees check public request and approval or not approval depending on the information given by the public. Here we are developing such types of the module which help to reduce the municipality work manually and it helps to save time of the user. Considerably reduce the corruption in certificates. Keep the documents safely.

#### 5. ACKNOWLEDGMENT

The satisfaction and euphoria that accompany the successful completion of any task would be but incomplete without the mention of people who made it possible, whose constant guidance and encouragement crowned by efforts with success. I consider it my privilege to express my gratitude and respect to all those who guided and inspired me in the completion of this project.

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## **6. REFERENCES**

- [1] Dave Mercer, “*ASP. NET A Beginner’s Guide*”, Tata McGraw –Hill Pub. Company Ltd, 2002
- [2] Elias M. Awad, “*System Analysis & Design*”, Sunil Golgotha 2001
- [3] Navathe. Elmasri, “*Fundamentals of Database Systems*”, Pearson Education, Inc. California, 2000
- [4] Don Gosselin, “*ASP.NET Programming with C# & SQL Server*”,  
Course Technology/Cengage Learning, 2010
- [6] Robert Vieira, “*Professional Microsoft SQL Server 2008 Programming*”, Publisher: Wiley John & sons, Incorporated, 2009
- [7] Richard Fairley, “*Software Engineering Concept*”, Publisher: Tata McGraw- Hill Education, 2001
- [8] Roger S Pressman, “*Software Engineering: A Practitioner’s Approach*”(first edition),1982
- [9] Roger S Pressman, “*Software Engineering: A beginner’s guide*”(1988)