



E-Marriage Registration

By

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A project submitted in partial fulfillment of the requirement for
the degree of Bachelor of Science in Software Engineering

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APPROVAL

This Project/Thesis titled “E-Marriage Registration”, submitted by **Md Mahafuzur Rahman, 151-35-866** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc in Software Engineering and approved as to its style and contents.

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I hereby declare that this project report has been done by us under the supervision of **Asif Khan Shakir**, Lecturer Department of Software Engineering, Daffodil International University. I also declare that neither this report nor any part of this report has been submitted elsewhere for the award of any degree.

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CHAPTER ONE

INTRODUCTION

1. INTRODUCTION

1.1. Project Overview

E-Marriage Registration is very helpful to registration of marriage and easily check who are married or not married? Here, Register can also print the marriage certificate.

1.2. The Purpose of the Project

People can know the information about marriage of particular person which are married or not married and also know how many got marry before. Using this application Register can easily provide certificate of married people. Child marriage is one of the most problem in our country .Using this application we can fully remove the child marriage because they can't registration without NID.

1.2.1. Background of the Project Effort

E-Marriage Registration that provides successful help to manage the Register Registration process and also manage remove Register. This is the ongoing project for Marriage Registration. This project fully remove early child marriage and also remove deceitful people who are got married many. As it is a new idea it needs a very powerful and comprehensible presentation that will have the right influence on the user.

1.2.2. Goals of the Project

The basic functionality of this system is making the process user friendly for Register. It helps admin to control the Register Registration system. Admin can update, delete and also add the register.

1.3. The Scope of the work

This system will help the Marriage register to reduce the time, money for their official work. It will help the common people who are use the system.

1.4. Beneficiaries and Benefits

This projects are mainly beneficiaries for admin and marriage register. Benefits are,

- This web application is fully functional and flexible.
- It is very easy to use.
- The system helps to Admin to control the all functionality and also helps the Marriage register to registration of marriage easily.
- It saves a lot of time and money.
- This system acts as an office that is open 24/7.
- It increases the efficiency of the management at offering quality services to the common people.
- Admin keep the Marriage register list.

The system provides an opportunity for marriage register and common people without any problem.

CHAPTER TWO

PROJECT PLANNING

2. PROJECT PLANNING

2.1. Project Scenario

The system has been designed with three modules in mind. These modules are, Admin Portal Module, Marriage Register Portal Module and common user Module. These three modules will make up the structure of the system. Admin module will help the Admin to maintain the unauthorized users. Admin can see the details of the Register from the site and also the updated or deleted. Marriage Register portal module will help the common people to marriage registration and provide marriage certificate. He can control the marriage registration system easily. Everybody can visit my website. But only register person can doing marriage registration operation. Common user can see the marriage related information

2.1.1 Scenario 1:- User (Admin) Based

Md Masum is one of the systems operating admin of E-marriage registration. He can manage the system.

- Md Masum registered in the system.
- He login to the system.
- He can see the all marriage register list.
- He can delete or update information.
- Then he can log out from the system.

2.1.2 Scenario 2:- User (Marriage register) Based

Md Kamal is a marriage register who can registration of marriage and he can check out who are married or not by using NID number. He can also print out the marriage certificate.

- Md Kamal registered in the system.
- He login to the system.
- He can see registrations list who are already done marriage registration in this system.
- He can easily check out of married person.
- He can print the marriage certificate.
- Then he can log out from the system.

2.1.3 Scenario 3:- User (Common people) Based

Md Salam is a common people who can see the information on this website.

- He can see the Emergency contact number.
- He can also see marriage related message.

2.2. Stakeholders

2.2.1. The Admin

- Add Marriage Register
- View Register List
- Do Update and Delete

2.2.2 The Marriage Register

- View marriage registration list
- Do marriage registration
- Check and print certificate

2.2.3 The User

- View Marriage related information
- View Contact Details

2.3. Mandated Constraints

2.3.1. Budget Constraints

Primary budget – 30k

Yearly maintenance cost – 35k

Total estimated cost – 65k

2.4. Project Schedule

2.4.1. Project Timelines

I complete my project following by agile model.

Task No	Task Name	Duration
01	Planning	10 days
02	Requirement gathering & analysis	15 days
03	System Design	10 days
04	Development	30 days
05	Testing	5 days
06	Implementation	12 days
07	Relies	5 days
	Total	87

Table-2.1: Project

CHAPTER THREE

REQUIREMENTS SPECIFICATIONS

3. REQUIREMENTS

SPECIFICATIONS

Requirements analysis is the process of identifying the user satisfaction form the System. So, Requirements analysis is an important part of project management. When I selected this project I thought about some specific Software requirement, like as...

- Who is the user of this system?
- Is it helpful for them or not?
- Functional & Non-functional requirements

3.1 FUNCTIONAL REQUIREMENT

3.1.1 Admin login

FR-01	Admin login
Description	In this system admin must login then access this system functionality
System User	Admin

3.1.2 Add Register

FR-02	Add Register
Description	In this system admin can add the marriage register and also can delete the register. Admin also can view the all register list.
System User	Admin

3.1.3 Marriage register Login

FR-03	Register login
Description	In this system Register must login then access this system functionality
System User	Marriage Register

3.1.4 Registration of marriage

FR-04	Registration of marriage
Description	In this system Marriage register can registration of marriage with all info and must need NID number .Register also can view the registration update the information
System User	Marriage Register

3.1.5 Check and Print Certificate

FR-05	Check and print marriage certificate
Description	In this system Marriage register can check married status and create marriage certificate by using both (husband and wife) NID card number and other information. Register can create marriage certificate without checking married status.
System User	Marriage Register

3.1.6 Common User View

FR-06	Common User View
Description	In this system common people can view the marriage related photo. They can get some important contact number in future they can use those number to stop the child marriage and others work.
System User	Common User

3.2. Non-functional Requirements

Table-3.2: Non-functional Requirement

NFR_ID	FR_Name	Constraint
NFR001	Reliability Requirements	N/A
NFR002	Availability Requirements	N/A
NFR003	Fault-Tolerance Requirements	N/A
NFR004	Safety-Critical Requirements	N/A
NFR005	Maintenance Requirements	N/A
NFR006	Access Requirements	N/A
NFR007	Understand-Ability and Politeness Requirements	N/A

3.2.1. Reliability Requirements (NFR001)

The system is able to behave consistently active in admin and marriage register.

3.2.2. Availability Requirements (NFRQ002)

The system always will be available for access at 24hours, 7 days a week. Every time every moment admin and marriage register can access their own priority. If any problem admin will be handle it.

3.2.3. Fault-Tolerance Requirements (NFR003)

If there any problem with site user in this system, then admin will solve the problem.

3.2.4. Safety-Critical Requirements (NFR004)

The system has the ability to operate without catastrophic failure.

3.2.5. Maintenance Requirements (NFR005)

This system has the ability to deal with new technology or to fix defects.

3.2.6. Access Requirements (NFR006)

The system provides username and password to prevent the system from unauthorized access.

3.2.3. Fault-Tolerance Requirements (NFR003)

If there any problem with site user in this system, then admin will solve the problem.

3.2.4. Safety-Critical Requirements (NFR004)

The system has the ability to operate without catastrophic failure.

3.2.5. Maintenance Requirements (NFR005)

This system has the ability to deal with new technology or to fix defects.

3.2.6. Access Requirements (NFR006)

The system provides username and password to prevent the system from unauthorized access.

3.2.7. Understand-Ability and Politeness Requirements (NFR007)

This system has the ability so that a user can easily understand the policy and learn to operate, prepare inputs for, and interpret outputs of system or component.

3.2.3. Fault-Tolerance Requirements (NFR003)

If there any problem with site user in this system, then admin will solve the problem.

3.2.4. Safety-Critical Requirements (NFR004)

The system has the ability to operate without catastrophic failure.

3.2.5. Maintenance Requirements (NFR005)

This system has the ability to deal with new technology or to fix defects.

3.2.6. Access Requirements (NFR006)

The system provides username and password to prevent the system from unauthorized access.

3.2.7. Understand-Ability and Politeness Requirements (NFR007)

This system has the ability so that a user can easily understand the policy and learn to operate, prepare inputs for, and interpret outputs of system or component.

CHAPTER FOUR

SYSTEM ANALYSIS & DESIGN

4. SYSTEM ANALYSIS and DESIGN

4.1. Use Case

A use case diagram is a graphic depiction of the interactions among the elements of a system. A use case is a methodology used in system analysis to identify, clarify, and organize system requirements.

4.1.1. Structural Functionalities

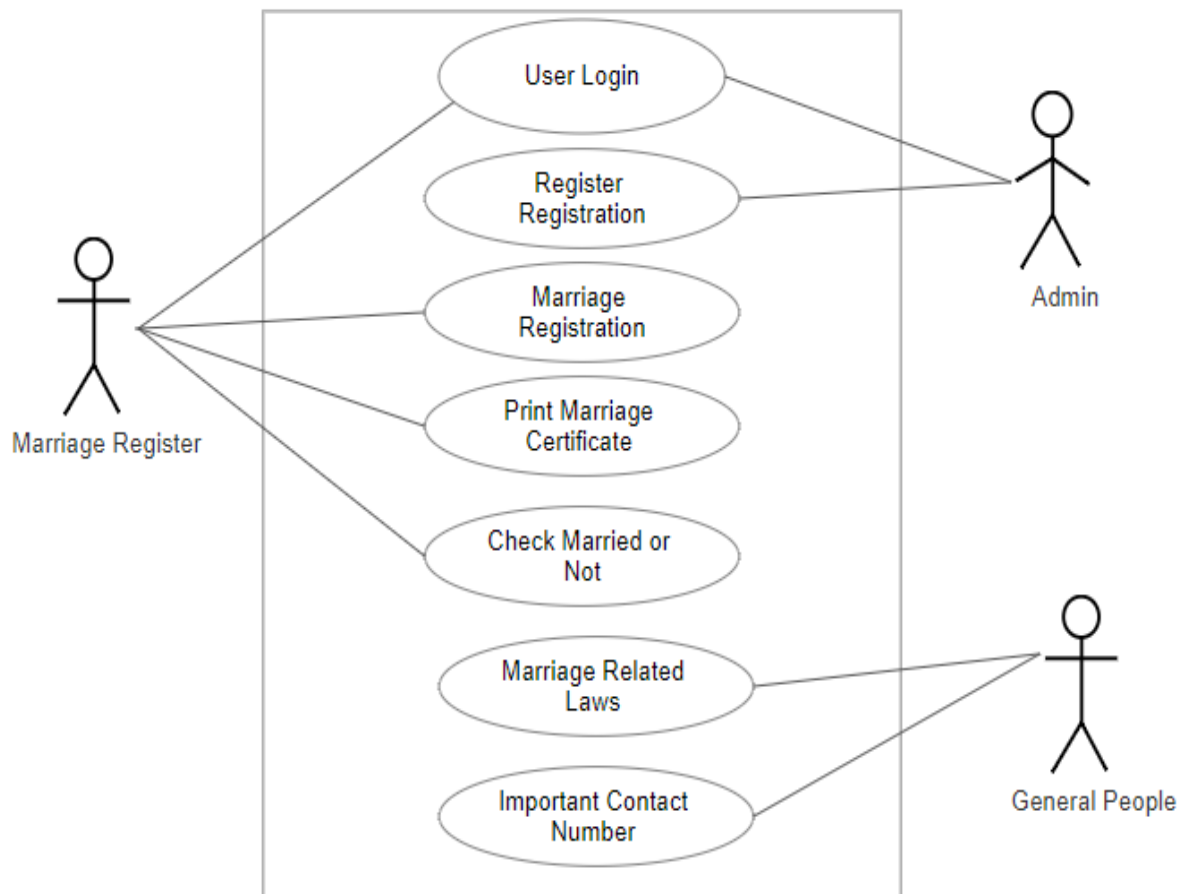


Fig-4.1: Structural Functionalities

4.1.2.1. Sub Module-1

Entity Perspective Use Case: Admin Login

Detail Description:

Table-4.1: Sub module-1 Admin Login

Use Case Name	Admin Login
Priority	Essential
Trigger	Admin must login the system
Pre-condition	The system has supported with a Database to store Data
Basic Path	Admin enter the system
Alternative Paths	None
Post-condition	Admin information is stored
Possible Enhancement	None

4.1.2.2. Sub Module-2

Entity Perspective Use Case: Admin add Marriage register

Detail Description:

Table-4.2: Sub module-1 Admin add Marriage register

Use Case Name	Admin add Marriage register
Priority	Essential
Trigger	Add marriage register
Pre-condition	The system has supported with a Database to store Data
Basic Path	Admin enter Marriage register information
Alternative Paths	None
Post-condition	Register information is stored
Possible Enhancement	None

4.1.3. Module-2 Register

4.1.3.1. Sub Module 1

Entity Perspective Use Case: Marriage Register Login

Detail Description:

Table-4.3: Sub module-1 Marriage Register Login

Use Case Name	Marriage Register Login
Priority	Essential
Trigger	Marriage Register must login the system
Pre-condition	The system has supported with a Database to store Data
Basic Path	Marriage Register enter the system
Alternative Paths	None
Post-condition	Enter the system
Possible Enhancement	None

4.1.3.2. Sub Module-2

Entity Perspective Use Case: Marriage Register do Marriage registration

Detail Description:

Table-4.4: Sub module-1 Marriage registration

Use Case Name	Marriage Register do Marriage registration
Priority	Essential
Trigger	Do the Marriage registration
Pre-condition	The system has supported with a Database to store Data
Basic Path	Marriage register store registration related information
Alternative Paths	None
Post-condition	Registration information is stored
Possible Enhancement	None

4.1.3.3. Sub Module-3

Entity Perspective Use Case: Marriage Register check and create Certificate

Detail Description:

Table-4.5: Sub module-1 Check and create Certificate

Use Case Name	Marriage Register check and create Certificate
Priority	Essential
Trigger	Marriage Register check and create Certificate
Pre-condition	The system has supported with a Database to store Data
Basic Path	Check form database
Alternative Paths	None
Post-condition	Enter the system
Possible Enhancement	None

4.1.4.1 Module-3

Entity Perspective Use Case: Common User

Detail Description:

Table-4.6: Sub module-1 User

Use Case Name	Common User
Priority	Essential
Trigger	View important information
Pre-condition	The system has supported with a Database to store Data
Basic Path	View information
Alternative Paths	None
Post-condition	View only
Possible Enhancement	None

4.2. Activity Diagram

Activity diagram is another important diagram in UML to describe the dynamic aspects of the system. Activity diagram is basically a flowchart to represent the flow from one activity to another activity. The activity can be described as an operation of the system.

4.2.1. Admin Perspective Activities

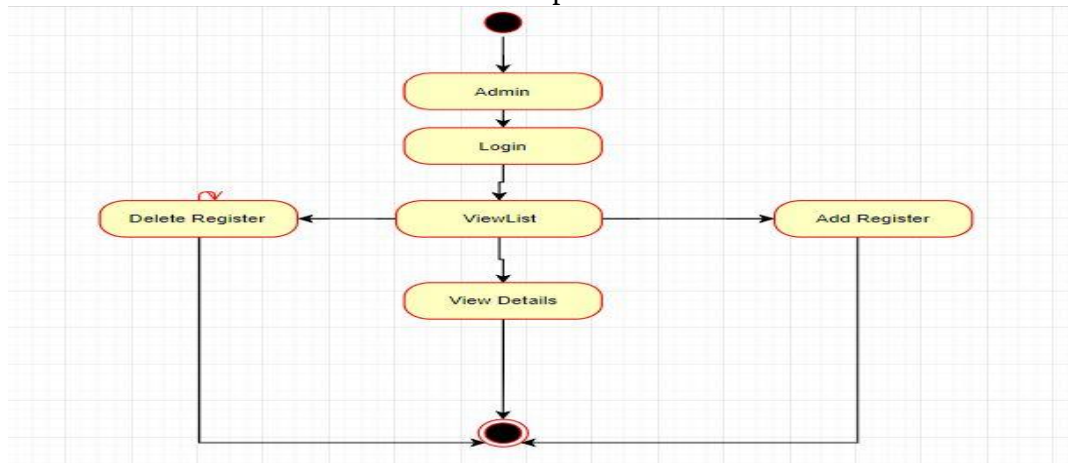


Fig-4.11: Admin Perspective Activities

4.2.2. Register Perspective Activities

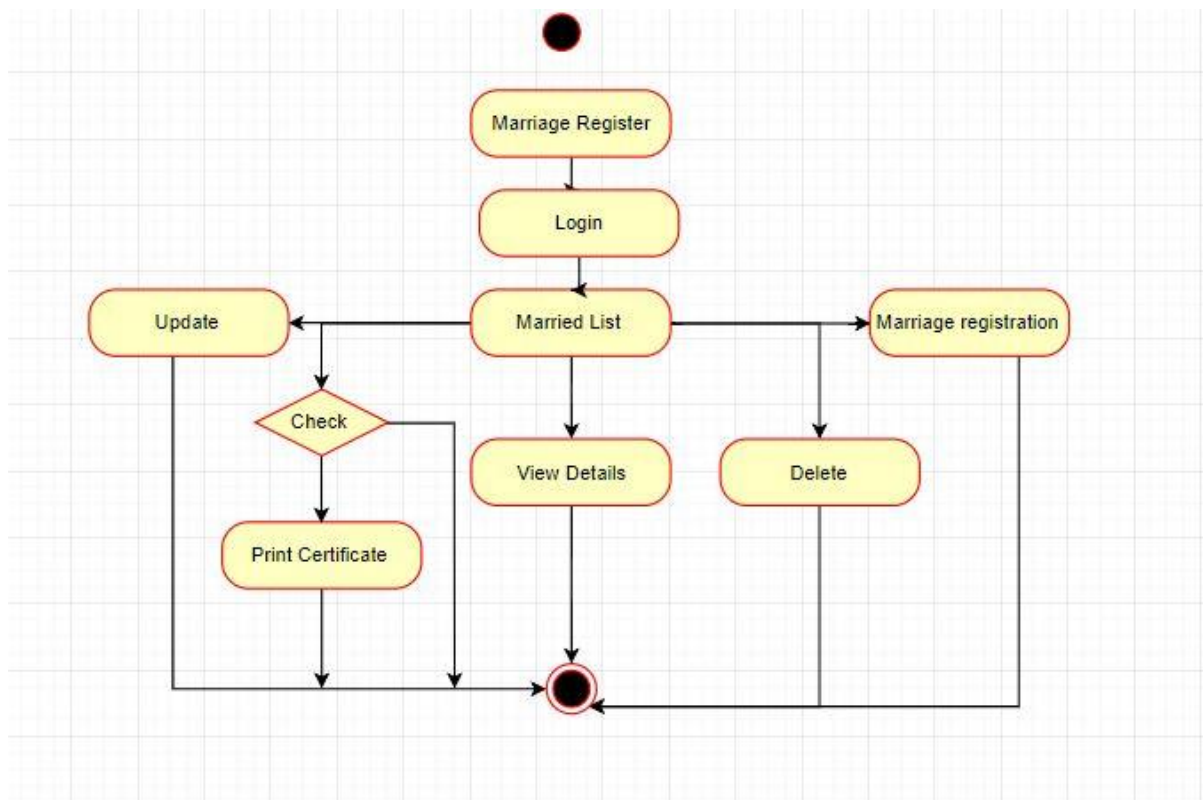


Fig-4.12: Register Perspective Activities

4.3. Sequence Diagram

A sequence diagram shows object interactions arranged in time sequence. It depicts the objects and classes involved in the scenario and the sequence of messages exchanged between the objects needed to carry out the functionality of the scenario.

4.3.1. Admin Perspective Sequence Diagram

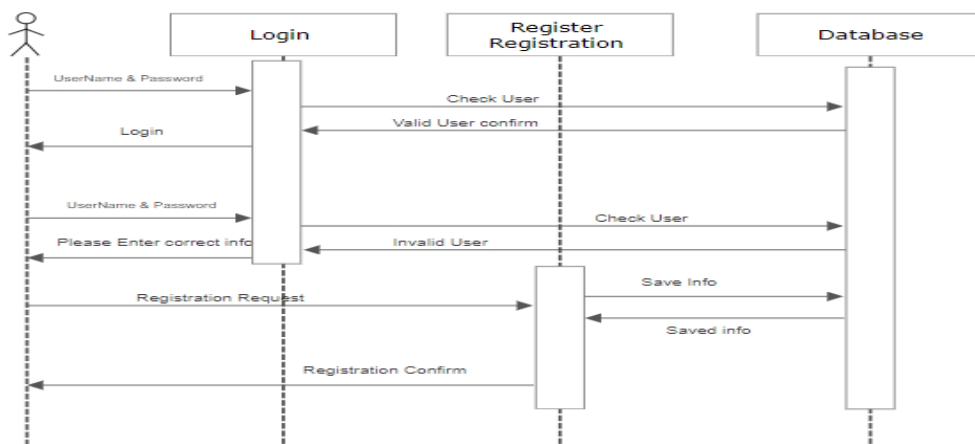


Fig-4.13: Admin Perspective Sequence

4.3.2. Marriage Register Perspective Sequence Diagram

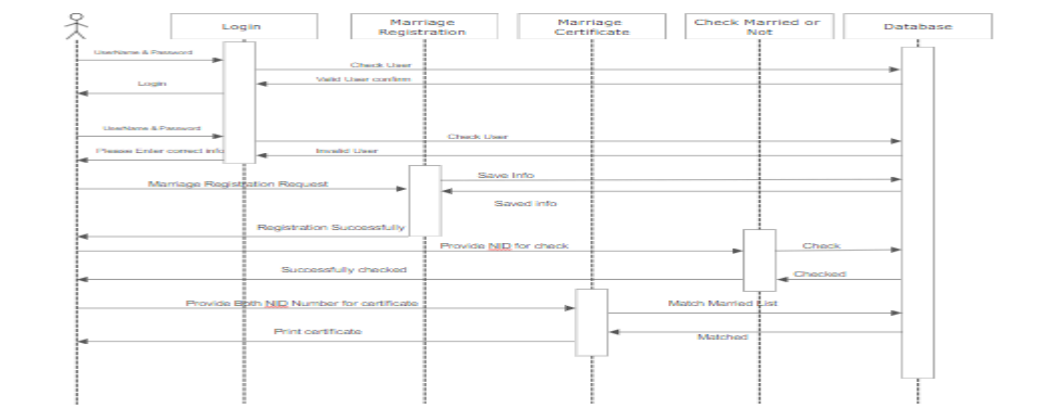


Fig-4.14: Marriage Register Perspective Sequence

4.4. Data Flow Diagram (DFD)

A data flow diagram (DFD) maps out the flow of information for any process or system. It uses defined symbols like rectangles, circles and arrows, plus short text labels, to show data inputs, outputs, storage points and the routes between each destination.

4.4.1. Context Diagram (Level-0 DFD): Admin, Register and user Perspective

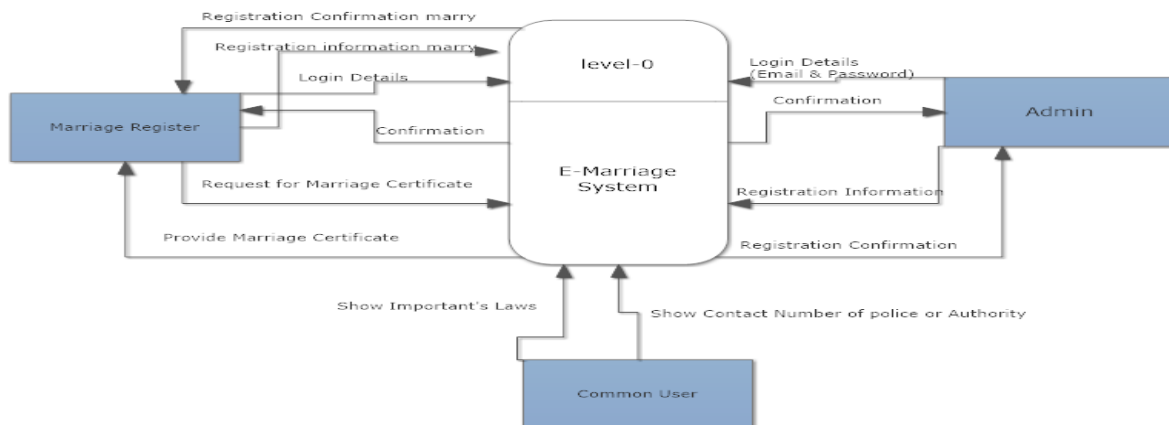


Fig-4.15: Context Diagram (Level-0 DFD)

4.4.2. DFD (Level-1): Admin, Register and user Perspective

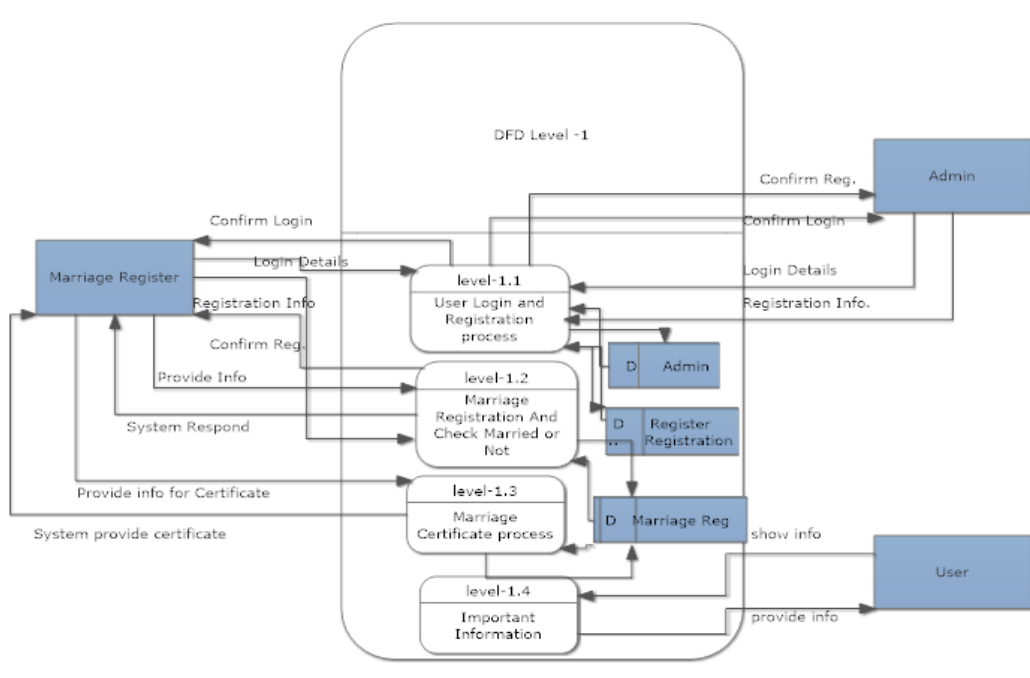


Fig-4.16: DFD (Level-1)

CHAPTER FIVE

DESIGN & DEVELOPMENT

5. DESIGN and DEVELOPMENT

5.1. Design and Implementation Constraints

5.1.1. System Language

- ASP.Net MVC
- CSS3
- Java Script
- jQuery

5.1.2. Database Design or Architecture

- Microsoft SQL Server 2012

5.2. Development Tools and Technology

5.2.1. User Interface Technology

- visual studio 2013

5.2.2. Implementation Tools and Platforms

- Server name :Local host
- Visual Studio 2013
- Microsoft SQL Server 2012

5.3. Class Diagram

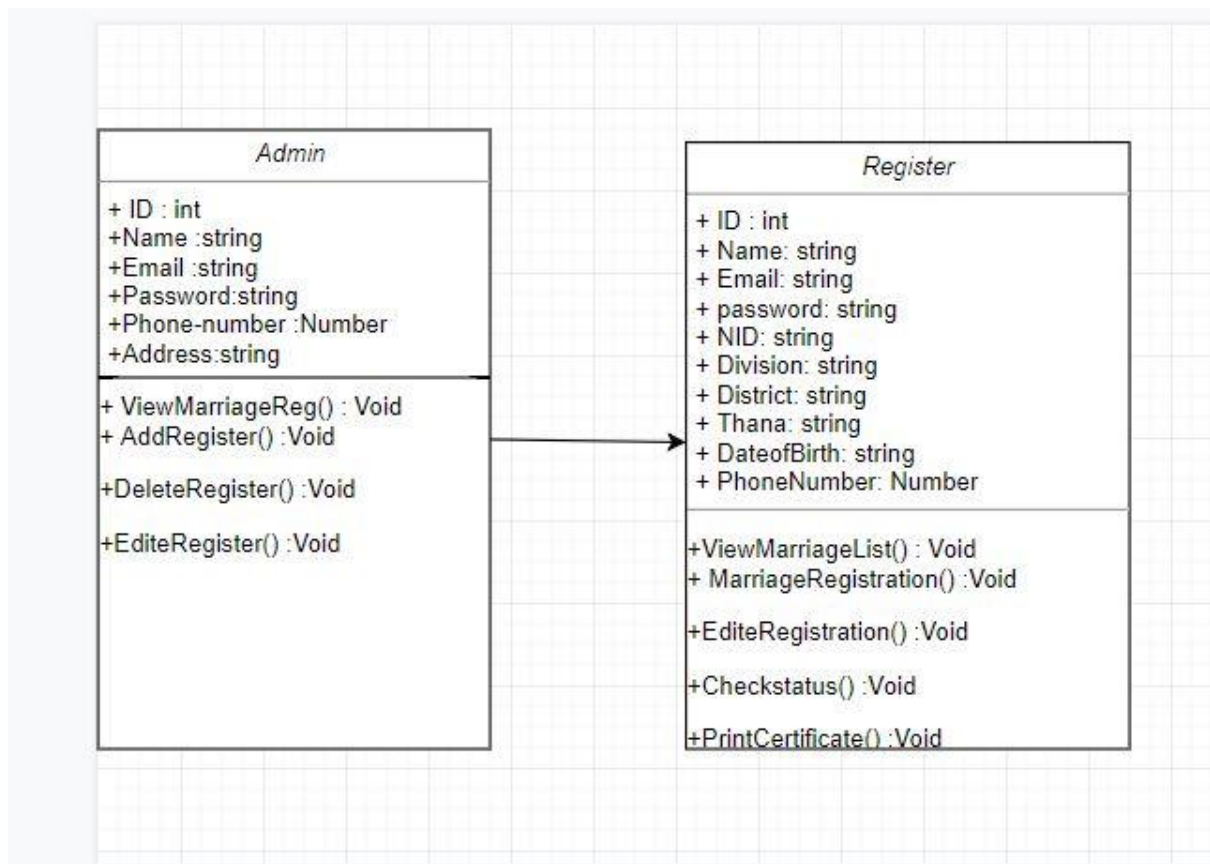


Fig-5.3: Class Diagram

5.4. Database Design

5.4.1. Entity Relationship Diagram (ERD)

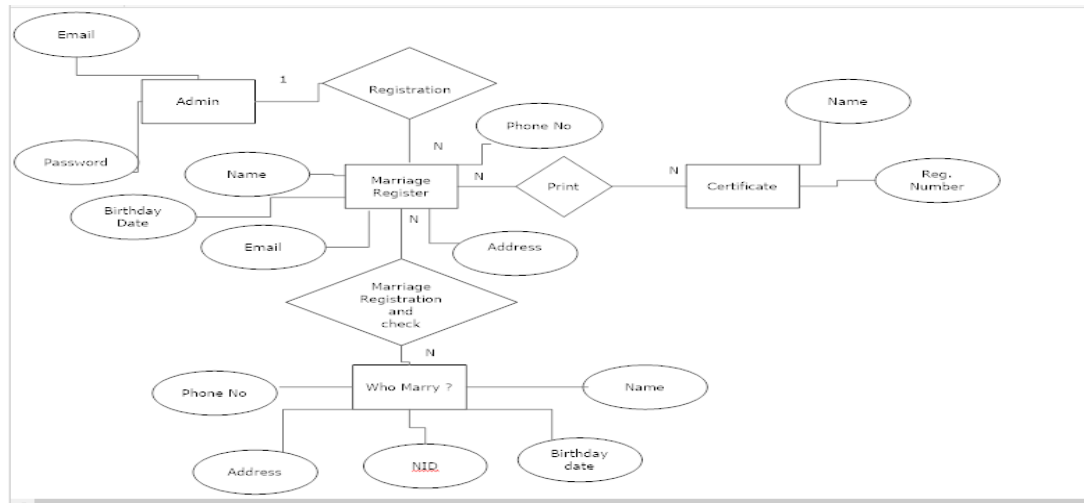


Fig-5.1: Entity Relationship Diagram (ERD)

CHAPTER SIX

TEST PLANS

8. TEST PLANS

6.1. Testing Features

6.1.1. Features to be tested

- Login
- Registration
- Check and Print Certificate

6.1.2. Features not to be tested

- Manage profile
- View register report

6.2. Testing Strategies

A testing strategy is a general approach to the testing process rather than a method of devising particular system or component tests. Different testing strategies may be adopted depending on the type of system to be tested and the development process used.

6.3. Test Cases

6.3.1. Test Case Module-1: Registration

6.3.1.1. State Transition Diagram

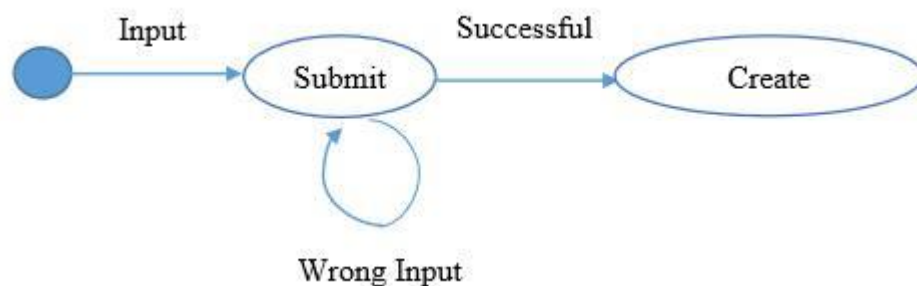


Fig-6.1: State Transition Diagram (Registration)

6.3.1.2. Test Case Table

Table-6.1: Test Case Registration

Test Case ID: TC_ASS_1	Test Design by: Md Mahafuzur Rahman
Test Priority: High	Test Design Date: 02.04.2019
Module Name: Registration	Test Execute by: Md Mahafuzur Rahman
Description: This section covers the Functionality of registering new register.	Test Execute Date: 06.04.2019

Precondition: User has no precondition

Dependencies: Enter input required information

Step	Test cases	Test data	Expected result	P/f	Actual result
01	Enter empty value for any required field		Display error message	Pass	Display error message
02	Enter non-numeric value in Contact Number field	ggkgjkjjj	Don't take non-numerical values	Pass	Don't take non-numerical values
03	Enter password min 4 & max 6 characters long	1234567	Display error message "Password length must be 4-6 characters"	Pass	Display error message "Password length must be 4-6 characters"
04	Enter duplicate User ID		Display error message "User Already exist."	Pass	Display error message "User Already exist."
05	New user registration		Display message "Your profile has been recorded successfully registered"	Pass	Display message "Your profile has been recorded successfully registered"

6.3.2. Test Case Module-2: Login

6.3.2.1. State Transition Diagram

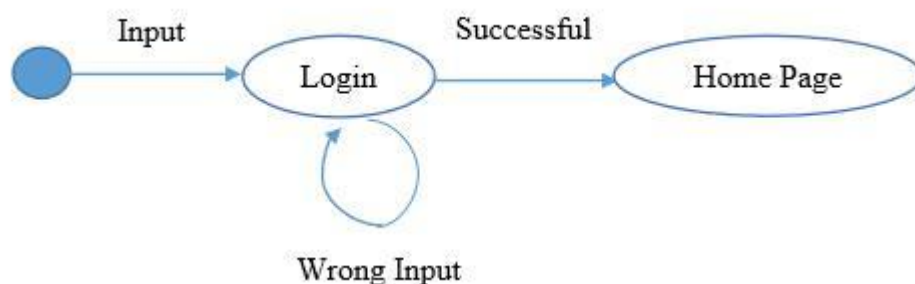


Fig-6.2: State Transition Diagram (Login)

6.3.2.2. Test Case Table

Table-6.2: Test Case Login

Test Case ID: TC_ASS_2	Test Design by: Md Mahafuzur Rahman
Test Priority: High	Test Design Date: 02.04.2019
Module Name: Login	Test Execute by: Md Mahafuzur Rahman
Description: Test login process of automobile sales system	Test Execute Date: 06.04.2019

Precondition: User must be registered already

Dependencies: Input correct user name & password.

Step	Test Cases	Test Data	Expected Result	P/F	Actual Result
01	Enter empty value for user name & password		Display error message	Pass	Display error message
02	Enter correct value for user name & password	User name & password	Accept	Pass	Accept
03	Enter wrong value for user name & password	User name & password	Display error message	Pass	Display error message
04	After giving input click login button		Clicking on login button directed on another page	Pass	Clicking on login button directed on another page

6.3.3. Test Case Module-3: Check and print certificate

6.3.3.1. State Transition Diagram

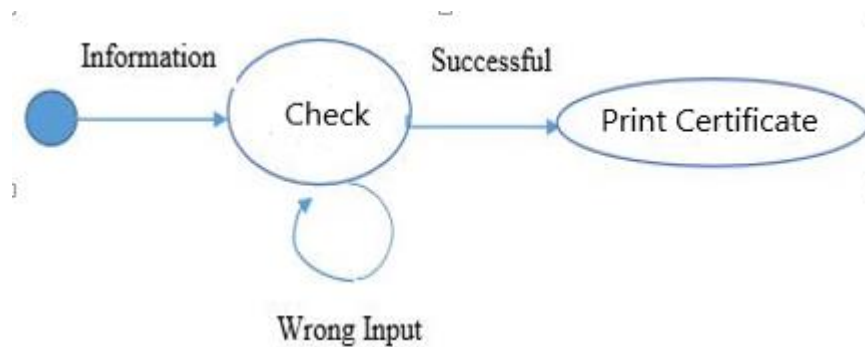


Fig-6.3: State Transition Diagram (print certificate)

6.3.3.2. Test Case Table

Table-6.3: Test Case print certificate

Test Case ID: TC_ASS_3	Test Design by: Md Mahafuzur Rahman
Test Priority: High	Test Design Date: 06.04.2019
Module Name: Order	Test Execute by: Md Mahafuzur Rahman
Description: Test the registration process	Test Execute Date: 06.04.2019

6.4. Testing Deliverables

6.4.1. Project Status Report

Table-6.4: Project Status Report

Feature	Test Case	Pass	Fail
Registration	08	08	00
Login	04	04	00
Print Certificate	05	05	00

6.4.2. Change Management

After building our project we tried to modify our system in this platform.

The screenshot shows the GitLab web interface for a project named "E-Marriage Registration". The browser address bar shows the URL: <https://gitlab.com/mahafuzur214/e-marriage-registration>. The project page displays the following information:

- Project ID: 11995564
- 1 Commit, 1 Branch, 0 Tags, 0 Bytes Files
- Current branch: master
- Commit history: 2c131488 (Md Mahafuzur Rahman authored 25 minutes ago)
- Buttons for adding README, CHANGELOG, CONTRIBUTING, enabling Auto DevOps, and adding a Kubernetes cluster.
- Buttons for setting up CI/CD.
- Table of files and their commit history:

Name	Last commit	Last update
EmarriageFinal	add README	25 minutes ago
packages	add README	25 minutes ago
EmarriageFinal.sln	add README	25 minutes ago
EmarriageFinal.sln.DotSettings.user	add README	25 minutes ago
README.md	add README	25 minutes ago

CHAPTER SEVEN

CONCLUSION

7. CONCLUSION

Today, this project is help to grow our Digitalization. Every government related work should performed through the internet. Today, it is a reality in Bangladesh. In the last couple of years, the growth of many govt. work performed by web base application or E-Govt. site in Bangladesh. So the E-marriage registration system help the people to growth the Digital Bangladesh.

8. APPENDICES (USER MANUAL)

Appendices A. Home Page

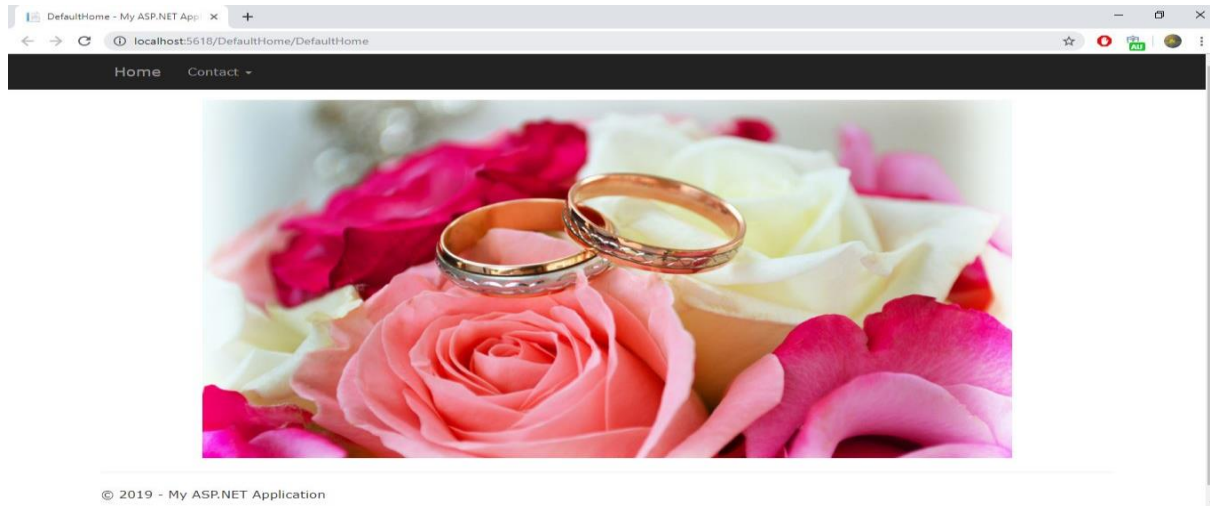


Fig 8.1 Home Page

Appendices B. Login Page



Fig 8.2: Login Page

Appendices C. Marriage Register Registration Page



The screenshot shows a web browser window with the title "Emarriage Registration". The address bar displays "localhost:51290/RegRegistration/Create". The page has a dark navigation bar with links for "Home", "About", and "Contact". Below the navigation bar, the page title "RegisterRegistration" is centered. The main content area contains a registration form with the following fields: "কাজীর নাম" (Name of the Registrar), "কাজীর ইমেইল" (Email of the Registrar), "পাসওয়ার্ড" (Password), "পাসওয়ার্ড নিশ্চিত" (Confirm Password), "ফোন নাম্বার" (Phone Number), "কাজীর NID" (Registrar's NID), "বিভাগ" (Division), "জেলা" (District), "থানা" (Thana), "মাসিক্ত রত এলাকা" (Municipal Area), and "জন্ম তারিখ" (Date of Birth). A "Create" button is located at the bottom right of the form. A "Back to List" link is positioned at the bottom left of the page.

Fig 8.3: Marriage Register Registration Page

Appendices D. Marriage Register Login Page



The screenshot shows a web browser window with the title "Emarriage Registration". The address bar displays "localhost:51290/RegisterLogin/RegisterLogin". The page has a dark navigation bar with links for "Home", "About", and "Contact". Below the navigation bar, the page title "Register Login" is centered. The main content area contains a login form with the following fields: "কাজীর ইমেইল" (Email of the Registrar) and "পাসওয়ার্ড" (Password). A "Login" button is located at the bottom right of the form. At the bottom of the page, there is a copyright notice: "© 2019 - My ASP.NET Application".

Fig 8.4: Marriage Register Login Page

Appendices E. Marriage Registration Page

The screenshot shows a web browser window with the URL `localhost:51290/MarriageReg1/Create#`. The page has a red sidebar on the left with a menu. The main content area is titled "Create" and contains a form with multiple input fields. The form fields are organized into sections, with some fields having labels in Bengali. The form is currently empty, and a red "Submit" button is visible at the bottom right.

Fig 8.5: Marriage Registration Page

Appendices F. Check Married Status page

The screenshot shows a web browser window with the URL `localhost:5618/CheckMarried/CheckMarriage#`. The page has a red sidebar on the left with a menu. The main content area is titled "Check Married Or Unmarried" and contains a form with two input fields labeled "Male NID" and "Female NID". A "Submit" button is located below the "Female NID" field. The form is currently empty.

Fig 8.6 : Check Married Status page

Appendices G. Marriage Registration List View page

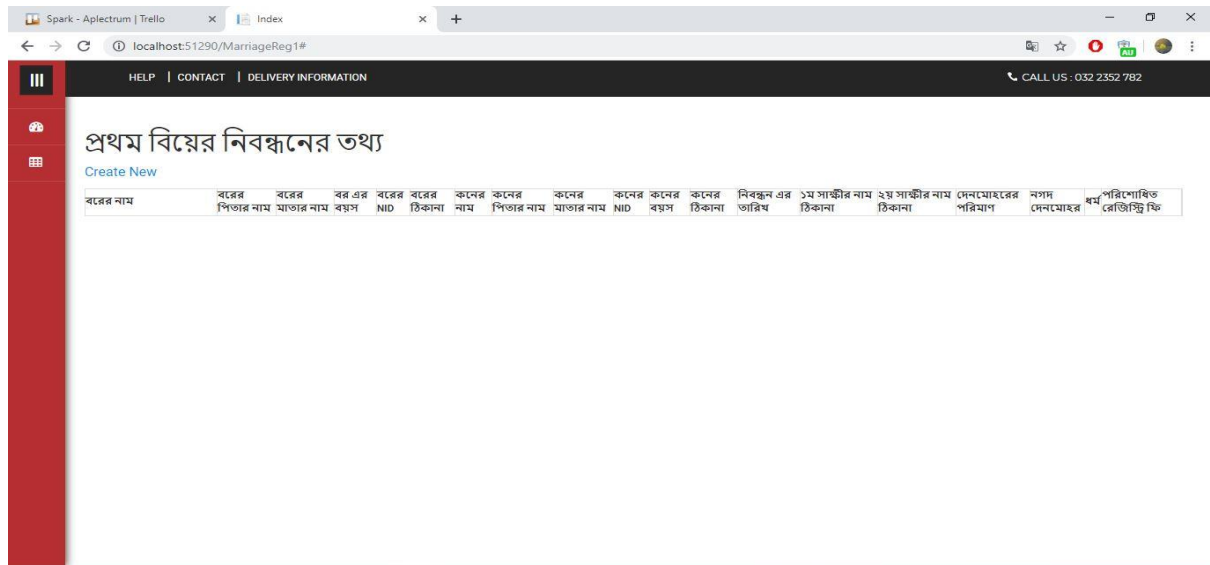


Fig 8.7: Marriage Registration List View page

Appendices H. Certificate Print

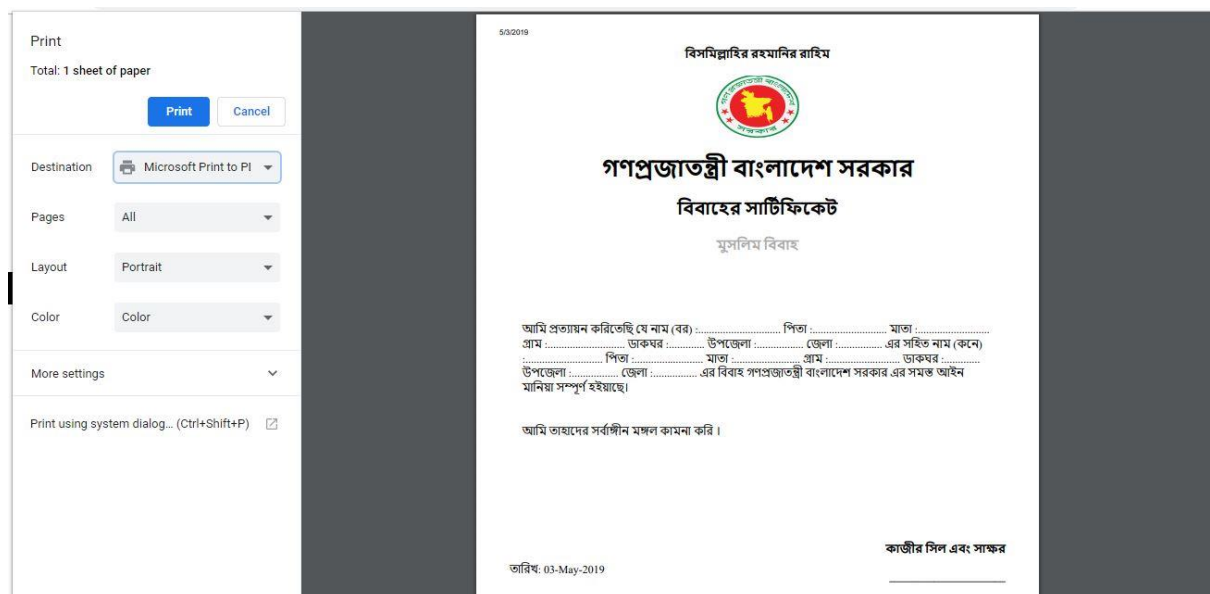


Fig 8.8 : Certificate Print

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