

Shubhangi Srivastava : 002197298

Simran Gupta: 002124423

Unnati Kolhe : 002133343

Healthcare Benefits for the State Of **Massachusetts**

Introduction and Business Idea:

- This application provides comprehensive and uniform medical services that enable persons previously limited by their circumstances to receive medical care in the form of Health Care Coverage.
- Funding is shared by federal and state governments, with eligibility determined based on eligibility criteria of the citizens.
- Medicaid pays for health services for qualifying families with children, and people who are pregnant, elderly, or disabled.
- The citizen will apply for Healthcare Benefits by approaching the Application Registrar who would start his application registration followed by Data Collection, Eligibility Determination and finally, the notice of Authorization confirming the client about the benefit that has been granted to him based on his Eligibility Criteria.

Objective:

- The Mass Health application majorly focuses on granting health benefits like ACA, ABD Blind, ABD, ACAP, CWD, WWD, Medicare to the citizens of Massachusetts.
- The Eligibility Criteria includes:
 - a) Age

- b) Pregnancy
- c) Relationship
- d) Disability

Process:

- Application Registrar registers Application of the Client.
- After AR, comes Data Collection (DC) where the Eligibility worker logs in and works on the personal data of the client like the household data, marital status, relationship, income, etc.
- Post the DC, comes Eligibility (ED) which is run after all the data of the client is collected and the eligibility is determined consisting of the healthcare benefit to be given to the client.
- After the ED, comes Notices where the notice worker logs in and sends the client, either the Notice of Authorization or the Review Notice.

Packages and Classes:

Application Registration:

ARFileClearance.java
ARPersonDetails.java
Customer.java
MultiuserLogin.java
NOAdmin.java
Login.java
SearchClient.java

Customer:

CustomerEligibility.java

CustomerSign.java

DataCollection:

DCCwdWwd.java

DCDisability.java

DCEarnedIncome.java

DCUnearnedIncome.java

DCLivingArrangement.java

DCMedicare.java

DCPersonDemographics.java

DCPersonDetails.java

DCRelationship.java

DCUnearnedIncome.java

DCPregnancy.java

EligibilityDetermination:

DateUtils.java

EDDetermination.java

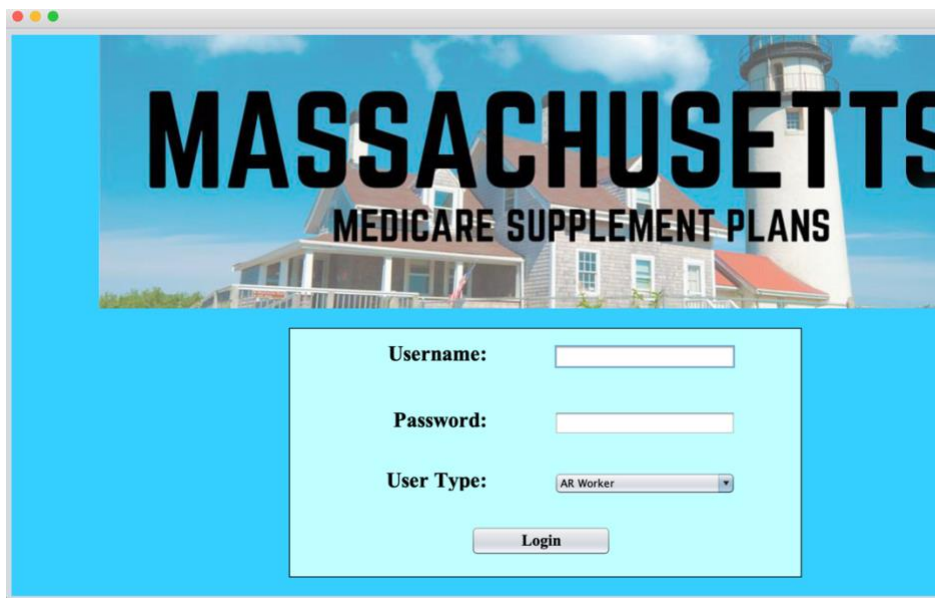
EDRun.java

Notices:

AuthorizationNotice.java

ClientSearch1.java

Login Page:



MASSACHUSETTS
MEDICARE SUPPLEMENT PLANS

Username:

Password:

User Type:

Login

The above attached is the screenshot of the Multi-user login page for the following Roles and modules respectively:

- a) Application Registrar -> Application Registration
- b) Eligibility Worker -> Data Collection and Eligibility Determination
- c) Notice Worker -> Notices
- d) Customer -> Customer Review

Application Registration (Role: Application Registrar):

This module includes the following two pages:



A screenshot of a web application window titled "Application Registration - Person Details". The window has a light blue background. Inside, there is a white rectangular form area. The form contains several fields for personal information: First Name (Taylor), Middle Name (Samantha), Last Name (Swift), Date of Birth (December 7, 1995), Marital Status (Married), Race (White), Ethnicity (Native Americans), Gender (Female), Phone Number (857-407-9333), and SSN (678-56-5535). At the bottom of the form area are two buttons: "Save" and "Next".

First Name:	Taylor
Middle Name:	Samantha
Last Name:	Swift
Date of Birth:	December 7, 1995
Marital Status:	Married
Race:	White
Ethnicity:	Native Americans
Gender:	Female
Phone Number:	857-407-9333
SSN:	678-56-5535

Save Next



A screenshot of a web application window titled "Application Registration - File Clearance". The window has a light blue background. Inside, there is a white rectangular form area. The form displays the SSN "678-56-5535" on the left, the text "MATCHES AN EXISTING" in the center, and "CLIENT2" on the right. At the bottom of the form area are two buttons: "Logout" and "Update".

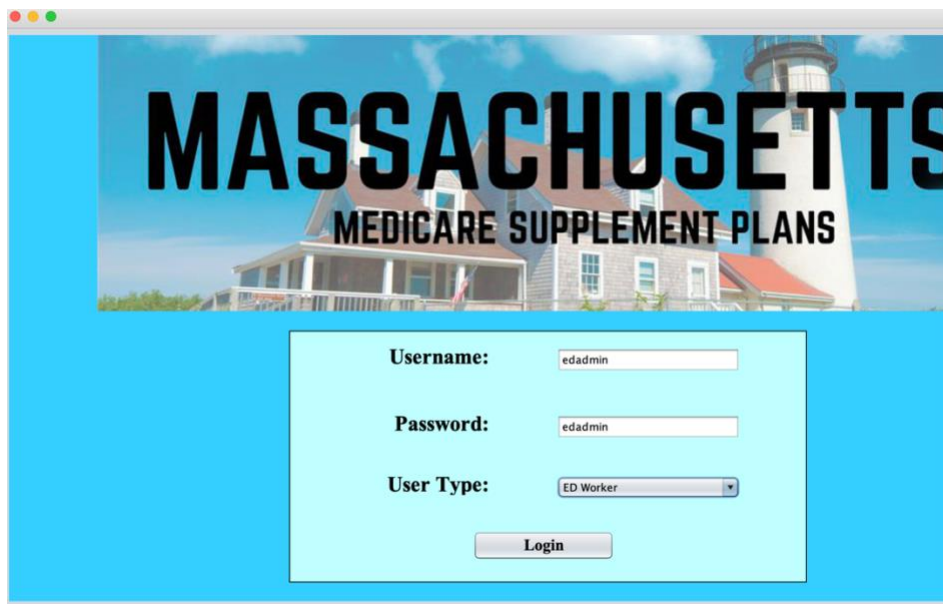
678-56-5535	MATCHES AN EXISTING	CLIENT2
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Logout Update

- On the ARPersonDetails Page, the Application Registrar enters all the person Details like the person's name, DOB, Gender, Race, SSN, etc.
- On the file Clearance Page, the application checks whether the person record already exists or not based on the SSN of the person. If yes, then the record is deleted and a new record is again created. If not, then we continue with the new application.
- Post the File Clearance, starts Data Collection, the role of the Application Registrar finishes here, and he logs out. The next login would be by ED Worker.

Data Collection (Role: Eligibility Worker):

The entire data is collected and entered by the Eligibility worker from the following pages:



The screenshot shows a web application window with a blue background. At the top, there is a banner image of a lighthouse and a house with the text "MASSACHUSETTS MEDICARE SUPPLEMENT PLANS" overlaid. Below the banner is a white login form with the following fields:

- Username:** A text input field containing "edadmin".
- Password:** A text input field containing "edadmin".
- User Type:** A dropdown menu with "ED Worker" selected.
- Login:** A button located below the User Type dropdown.

Search Client

Client ID:

33

Continue

Message

i

client found

OK

Data Collection - Person Details

Client ID:

33

First Name:

Taylor

Middle Name:

Samantha

Last Name:

Swift

Date of Birth:

1995-12-07

Marital Status:

Married

Race:

White

Ethnicity:

Native Americans

Gender:

Female

Phone Number:

857-407-9333

SSN:

678-56-5535

Next

Data Collection - Relationship

CSCD:

December 12, 2021

Client ID:

33

Relative's Name:

Relative's Age:

Relationship:

Add

Name	Relationship	Age
------	--------------	-----

Back

Next

Data Collection - Living Arrangement

Client ID:

33

Living Arrangement Type:

In Home

Has the person been living in MA for more than 3 months?:

Yes

Move in Date:

December 12, 202

Save

Next

Back

Data Collection - Person Demographics

Client ID:

33

First Name:

Taylor

Identity Document Type:

US Passport

Verification:

Hard Copy

Citizenship:

US Citizen

Is this person living in MA?

Yes

Verification:

Hard Copy

Save

Next

Back

Data Collection - Person Demographics

Client ID:

33

First Name:

Taylor

Identity Document Type:

US Passport

Verification:

Hard Copy

Citizenship:

US Citizen

Is this person living in MA?

Yes

Verification:

Hard Copy

Save

Next

Back

Data Collection - CWD/WWD

Is the person receiving CWD/WWD? Yes ▾

Client ID:

33

Name:

Taylor

Is the individual requesting Child with Disability(CWD)?:

No ▾

Is the individual requesting Worker with Disability(WWD)?:

No ▾

Save

Next

Back

Data Collection - Medicare

Is Medicare Part A or Part B selected? Yes

33

Client ID:

Name:

Taylor

Individual is requesting which of the following?:

Medicare Part A: ☐ check yes if applicable

Medicare Part B: ☐ check yes if applicable

Both: ☐ check yes if applicable

Save

Next

Back

Data Collection - Earned Income

Does the individual have an Earned Income? Yes

Client ID: 33

First Name: Taylor

Type: Wages

Frequency: Monthly

Income Source

Income Start Date: December 12, 2021

Income End Date: December 12, 2021

Income Amount

Save

Next

Back

Data Collection - Unearned Income

Does the individual have an unearned income? Yes

Client ID: 33

First Name: Taylor

Type: Wages

Frequency: Monthly

Income Source:

Income Start Date: December 12, 2021

Income End Date: December 12, 2021

Income Amount:

Save Next

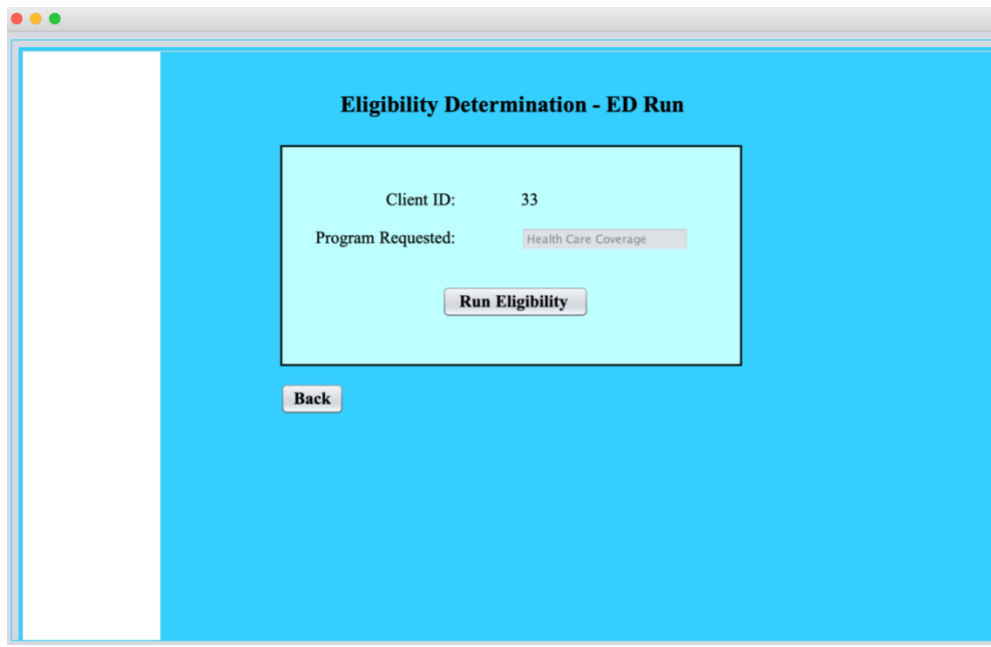
Back

- Post Login, the ED Worker enters the client ID of the person and the DCPersonDetails displays the details of the person entered in AR.
- The DCRelationship page gets the relationship of the person and stores the details in the Relationship table in MySQL.
- The DCLivingArrangement and the DCPersonDemographics are mandatory pages which store details like Living Arrangement type of the person, his Identity type , Citizenship, etc.
- The disability page is filled if the person has a disability, based on which the ABD (blind/not blind) benefit would be determined.
- The DCPregnancy page is taken into consideration when the woman in the case is pregnant which includes her due date, etc.

- The DCCwdWwd page is an optional page which is used if the the Child has a Disability and requires CWD benefit or if the person above 18 years of age is a disabled person and having an earned income.
- The Medicare page is an optional page which is used if the person requires MedicareA (Hospital Insurance) / MedicareB (Medical Insurance) / Both (Both Hospital and Medical coverage).
- The Earned Income and the Unearned Income pages store the income of a person, earned if the person is working in a gov/public/private sector and unearned if the person is earning an income through a personal business, etc.

Eligibility Determination (Role: Eligibility Worker):

The entire data is collected and entered by the Eligibility worker from the following pages:



The screenshot shows a web application window titled "Eligibility Determination - ED Run". The window has a light blue background and a white sidebar on the left. In the center, there is a white rectangular form with a black border. Inside this form, the text "Client ID:" is followed by the value "33". Below that, "Program Requested:" is followed by a text input field containing "Health Care Coverage". At the bottom of the form is a button labeled "Run Eligibility". Below the form, outside the white box, is a button labeled "Back".

Eligibility Determination - ED Run	
Client ID:	33
Program Requested:	Health Care Coverage
<button>Run Eligibility</button>	
<button>Back</button>	

Eligibility Determination - ED Results

Client ID:	33
Eligibility Start Date :	2021-12-12
Eligibility End Date:	2022-03-12
Benefit:	ACA
Days Left:	90
Status:	Eligible

[Logout](#)

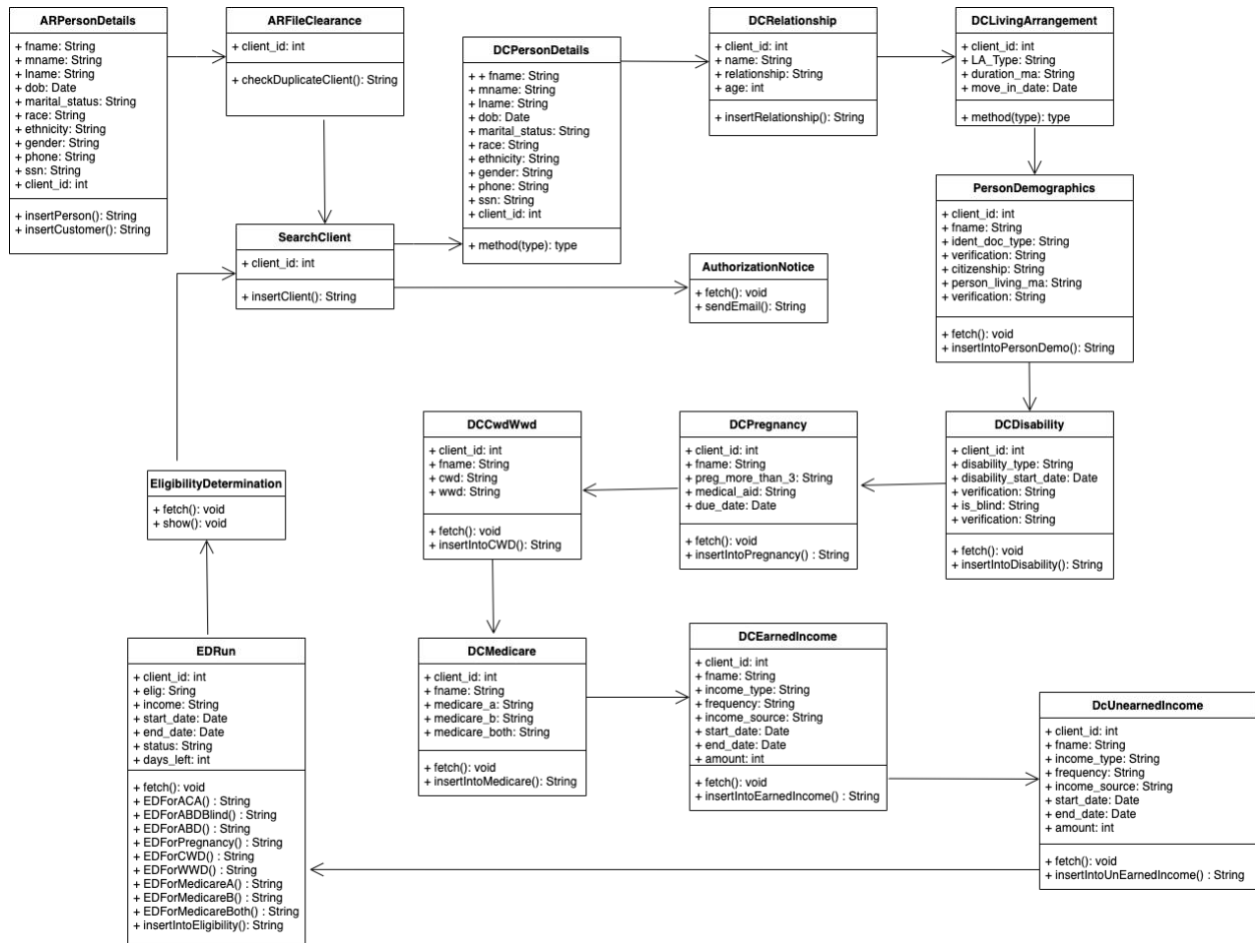
- Once all the data is collected and stored, the ED runs by clicking “Run ED” on the EDRun page.
- Based on the data collected, the Eligibility is determined on the EDDetermination page.
- Clicking on the logout button, the ED Worker logs out and the Notices start.

- **Notices (Role: Notice Worker):**

The screenshot shows a web application window with a blue header bar. The header contains the text "Client Authorization Notice For" on the left and the number "33" on the right. Below the header is a light blue rectangular area containing a form. The form has four labels on the left: "To:", "From:", "Subject:", and "Message:". The "To:" label is followed by an empty text input field. The "From:" label is followed by a text input field containing the email address "shubhangishrivastavahb13@gmail.com". The "Subject:" label is followed by an empty text input field. The "Message:" label is followed by a large, empty text area. Below the form area are two buttons: "Logout" on the left and "Send mail" on the right.

- Post Login, the Notice worker enters the Client ID, and sends the Notice Of Authorization to the client via email.
- 5 days before the third month ends, the Notice worker sends a Review Notice to the client via mail where it is stated that the Client needs to complete review before his benefits terminate.

Class Diagram:



Sequence Diagram:

