Delhi Health Insurance System (DHIS)



The main aim of this project is to provide fully integrated health and insurance plans for Delhi state citizens based on their life situations. Using DHIS Delhi state providing below plans for Delhi state citizens.

1) SNAP (Supplemental Nutrition Assistance Program)

2) CCAP (Child Care Assistance Program)

3) Medicaid

4) Medicare

5) QHP (Qualified Health Plan)

6) DW (Delhi Works)

# Every Plan is having some Rules, if citizen satisfy those rules, then only Citizen will get that plan

-> SNAP is a food stamp program; SNAP is applicable for the citizens who are having no-income or low-income

-> CCAP is a children’s program, CCAP is applicable for the families who are having less income with children’s

-> Medicaid is a health plan; Medicaid is applicable for the people with limited income and resources.

-> Medicare is a health plan; Medicare is applicable for the people who are having above 65 years

-> QHP is a health plan and it is commercial plan (People should purchase this plan)

-> DW is an un-employment plan, DW is applicable for the people who are graduated but no job

-> Citizens will apply for the plan using DHIS project.

-> DHIS project will collect citizen data and it will determine whether that Citizen is eligible for the plan or not.

-> If citizen data matches with PLAN rules, then citizen will be approved for the plan else citizen will be denied for the plan

-> If citizen approved for the plan, then citizen will get monthly benefit amount from the Government.

# HIS project is an intranet project (public users can't access directly)

Note: Internet project means everybody can access, Intranet means it is accessible by specific people in specific locations.

AADHAR -----> Intranet application

Gmail ------> Internet application

Passport ---> Internet application

Big Bazar Billing ----> Intranet application

-> HIS project is accessible only in DHS offices

-> In DHS offices govt employees will be available to access HIS application.

Those employees are called as Case Workers.

-> Citizens should go to nearest DHS office to apply for Health & Insurance Plans in New Delhi state.

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HIS Project Modules

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1) Admin

2) User Management

3) Application Registration (AR)

4) Data Collection (DC)

5) Eligibility Determination (ED)

6) Correspondence (CO)

7) Benefit Issuance (BI)

8) Reports

-> Admin module contains below functionalities

a) Plans Management (Create & Update Plans)

b) Case Worker Accounts Management (Activate & De- Activate accounts)

-> User Management module contains below functionalities

a) Login

b) Forgot Password

c) Profile

d) Dashboard

-> Application Registration (AR) module contains Citizen Onboarding functionality & it will verify citizenship of the citizen. If citizen belongs to Delhi state, then only onboarding will be success otherwise onboarding will be failed.

Note: If citizen belongs to Delhi state then only citizen can apply for the plan otherwise can't apply for the plan.

-> Data Collection (DC) module contains functionality to collect data from the citizen to apply for the plan.

-> Eligibility Determination (ED) module contains functionality to determine citizen eligibility for the plan. If citizen data matched with plan conditions, then citizen will be approved else citizen will be denied for the plan.

-> Correspondence (CO) module contains functionality to send Notices to citizens.

-> Benefit Issuance ( BI ) module contains functionality to send benefit amount to Eligibility Approved Citizens.

-> Reports module contains functionality to generate reports of our application

a) Daily Status Reports

b) Approved Citizens Report

c) Denied Citizens Report

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Admin Module

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1) **Case Worker Accounts Management**

1.1) Create Account

1.2) View Accounts

1.3) Activate / De-Activate Account

1.4) Delete Account

Note: When Case Worker account is created, case worker should receive an email with temporary password in email and a link to unlock account by changing password.

Note: Case Workers whose accounts are unlocked only those case workers can login into our application.

2) **Plans Management**

2.1) Create Plan

2.2) View Plans

2.3) Activate / De-Activate Plan

2.4) Delete Plan

Note: Only Active Plans should display in 'DC - Plan Selection' screen

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CW API

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=> **This api is responsible to handle below functionalities**

1) Login Check

2) Recover Password

3) Dashboard display (no. of plans, approved citizens count, denied citizens count)

4) Edit Profile

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Eligibility Determination

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**-> After Data Collection completed, then Eligibility Determination module execution will start**

**-> ED module is responsible to determine citizen is eligible for the applied plan or not based on plan conditions and citizen data**

**-> After Eligibility Determination Completed, ED module will insert eligibility data into ED\_ELIG\_DTLS table and it will insert a record into CO\_TRIGGERS table to send notice to citizen**.

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**Plan wise Conditions**

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SNAP Condition: If employment income <=300$ then citizen is eligible for SNAP

CCAP Condition: If employment income <=300$ and kids count > 0 and each kid age <=16 then eligible for CCAP

Medicaid: If employment income <=300$ and Property Income + Rent Income is 0 then eligible for Medicaid

Medicare: If citizen age is >=65 then eligible for Medicare

DW: If citizen is un-employed and graduated then eligible for DW

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CO API

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=> CO API is responsible to generate and send notices to citizens based on their eligibility data

=> CO api will read pending triggers from CO\_TRIGGERS table and then it will generate notice with citizen eligibility data

and it will send notice to citizen email.

=> After sending notice to citizen CO api will update trigger as completed.

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CO Business Logic

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1) Read all pending triggers from CO\_TRIGGERS table

2) Process Each Pending Trigger

2.1) Get Eligibility data based on caseNum

2.2) Get Citizen data based on AppId

2.3) Prepare PDF with Citizen Data + Eligibility data

2.4) Store PDF into DB Table (later we will discuss how to store into AWS S3 bucket)

2.5) Send PDF to citizen email

2.6) Update the trigger as completed.

3) Send the final response (Total Records Processed, Success Count, Failure Count) from API

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BI Module (Benefit Issuance)

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=> BI is responsible to send benefit amount for Plan Approved Citizens

=> Bi will read Approved Citizens data from ED table and it will prepare a CSV file with citizens data

=> BI will insert that file into BI\_INFO table and will upload that file into FTP location

=============== CSV file Format ==================

[ caseno, fname, ssn, planname, benefit amt]

797979,john,797973479,SNAP,345.00$

697979,smith,7979423979,CCAP,345.00$

597979,cathy,79235979,Medicaid,345.00$

497979,charles,7965679,Medicare,345.00$

397979,buttler,7342479,RIW,345.00$

297979,David,786579,SNAP,345.00$

897979,James,7925579,SNAP,345.00$

997979,Lin,735679,CCAP,345.00$

123979,Rhodes,77559,RIW,345.00$

432979,Orlen,7985559,SNAP,345.00$

