Mini Project – Insurance Policy Generation

System Definition

THE GANPATH INSURANCE POLICY CONSULTATION, aims to generate right policy for every customer, where several parameters were measures before selection of exact policy required. The policy generation will gather Personnel data, here policy credit score is evaluated by several parameters

1) BMI evaluation
2) Smoking evaluation
3) Alcohol evaluation
4) Drugs evaluation
5) Exercise evaluation
6) Diet evaluation
7) Stress evaluation
8) Insomniac evaluation
9) Health Issues
10) Accident evaluation
11) Policy selection
12) Monthly payment

The workflow was developed in C,

3.1 REQUIREMENT:

3.1.1 HIGH LEVEL REQUIREMENT

TABLE 3.1 HIGH LEVEL REQUIREMENT

ID	DESCRIPTION
H01	Policy Declaration and standardization with Software VScode and GCC
H02	Memory Allocation for Applicants and libraries
H03	Standard structure Declaration
H04	Control flow execution
H05	Sub function declaration
H06	Permission to Data modification (Secondary) in policy
H07	Rough draft Policy generation
H08	Fair draft Policy Generation

3.1.2 LOW LEVEL REQUIREMENTS

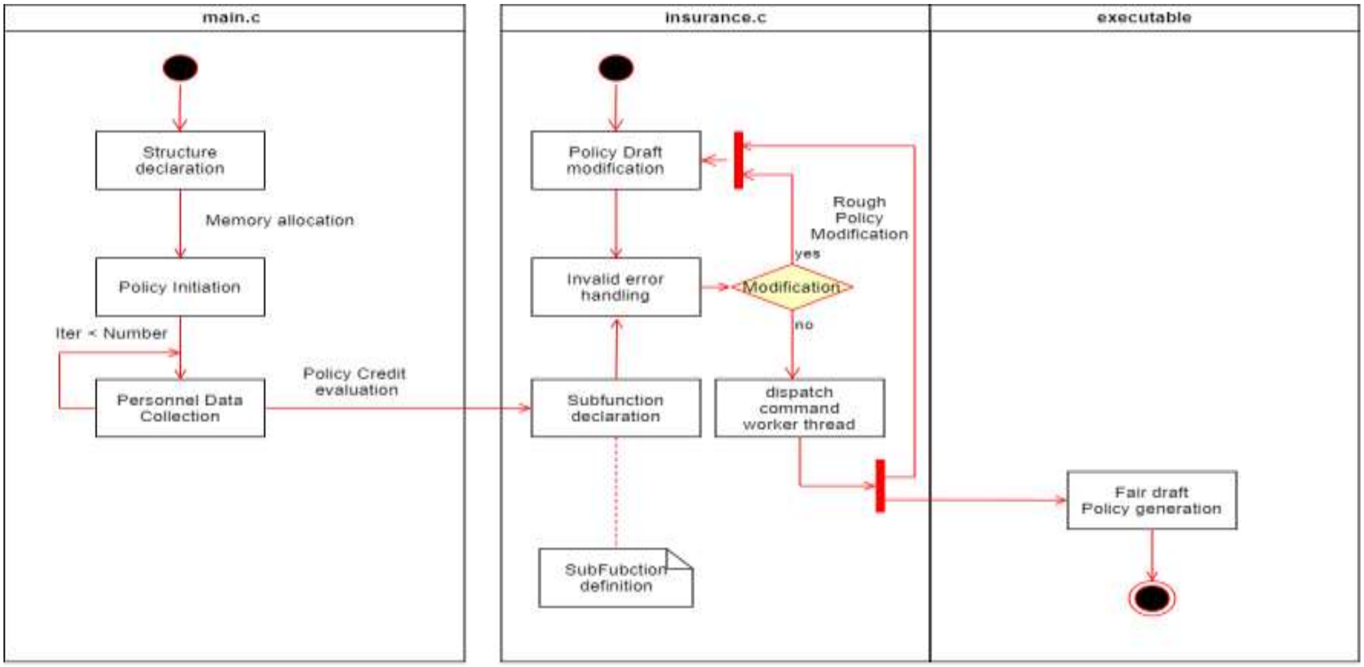
TABLE 3.2 LOW LEVEL REQUIREMENTS

ID	DESCRIPTION
H01_L01	Insurance Policy Enrollment Digital form standarization
H01_L02	Policy Coverage and functionality
H01_L03	Number of Applicant to be enrolled
H02_L01	Structure declaration in Variable Header before memory allocation
H02_L02	Memory allocation to number of people getting enrolled
H02_L03	Automatic Unique ID generation and structure mapping
H03_LO1	Personnel Data entry, Policy point initialization
H03_L02	Policy credit score based on BMI calculation
H04_L01	BMI evaluated policy credit
H04_LO2	Smoking, Alcohol and Drug evaluation evaluation
H04_L03	Splitting of Functions in various sub function
H04_L04	Store user input for Policy credit evaluation
H05_L01	Header file setup and Policy design
H05_L02	Declaration of sub function
H05_L03	Definition and error handling mechanism

H06_L01	Permission for Data modification with Creditials
H06_L02	Avoid memory to get truncated the stored data
H06_L03	Data Verification with rough draft generated and Data stored
H07_L01	Rough Policy draft generation which to allow modification
H07_L02	Fair Policy draft generation as Final
H07_L03	Stay Online to check wheter there is an thread to start over new policy evaluation

3.2 UML FLOW

3.2.1 ACTIVITY FLOW



Activity Flow of Insurance Policy Generation

FIG 3.1 HIGH LEVEL ACTIVITY FLOW

3.3 TEST PLAN:

3.3.1 REQUIREMENT BASED

TABLE 3.3 REQUIREMENT BASED TEST PLAN

ID	DESCRIPTION	PRE-CONDITION	EXPECTED INPUT	EXPECTED OUTPUT	ACTUAL OUTPUT
H01_T01	Policy Framework/ Template ready	Insurance policies must be pre-planned	Availability of Activity flow of the system	The template should be clear with applicant	Policy generation
H01_L02_T01	Policy Coverage and Functionality of credit evaluation	The Policy Credit must be assigned to maximum at Initial	Credit score initiation	Credit score must be high so explore wiser policies	Policy generated
H02_T01	The requirement of structure holding the template of Customer data	Structure declaration for Applicant Input	Structure definition and instance creation	The Structure memory to be dynamically allocated without any truncation	Policy generation
H02_L01_T01	The Structure must be declared with Proper template to load value of the applicant	The structure template ready	Structure instantiation must be declared as a header and used by most of the function.	The Memory must be declared dynamically based on no. of applicants	The standard information blog is created for end customer Details.
H04_L01_T01	The BMI should be calculated	The BMI must determine the credit score modification	The BMI level initiation BMI = 32	The BMI classify the reduction in level of Credits Obese	Obese
H02_L02_T01	The memory allocation for the applicant can go truncated	Enter age = 19 - 75, Policy Term = 14-30Y Sum assured = 2Min - 5L	The truncation must be handled with perror	The Truncation of memory must be handled with handling mechanism	Policy generation
H03_L01_T01	The Data entry in string format, So the NULL value	The Buffer must be maintained to prevent the NULL value	The Buffer must be initiated	The Buffer must be regularly handles when two strings	Policy generation

	accumulation on next memory	being occupied next memory	(Name,)	called alternatively	
H04_L02_T01	The Sub function must be called to evaluated, if it in un authorized memory	The headers must be called before function calling	The handling mechanism of should take Unauthorized memory accessing	The Handling mechanism must flow smoothly and load the value to memory location	Memory Structure
H07_T01	Rough policy modification can also go invalid inputs loaded	The Insurance policy will intelligently.	The Generated policy adopts error	The Fair Policy copy shouldn't have any wrong loaded data.	A txt file gets generted

H05_L02_T01	Age of policy can be 5 – 60 years	Date of Birth and Present date must be valid	The Month loaded with number of days must be pre-assigned	The Age calculation must undergo perror handling mechanism	Date validation (1900-2050)
H05_L02_T02	Amount of consumption of alcohol must be in months	Option to answer must be loaded	The Amount of alcohol if consumed by the applicant, necessary ICS should be reduced	The ICS scored must reduce to lower the possibility of better Policy generation	Alcohol condamination in body.

Design and Flow:

1) A quick introduction about insurance policies, and available policy and its terms and conditions.

2) Data Gathering, the multiple data are gathered from applicant, to frame or suggest him/her an optimum policy.

3) The Personnel gathering data include all 12 inputs with personnel data analyse and manipulate the ICS.

4) The Data entered by the applicant gets dynamically stored and ICS get analysed.

5) The modification of data option is been provided if the applicant need to update to data in future.

6) Recovery and Retrieval of data takes more time, and need data structure to store the data in structured manner.

7) Age and date violation will automatically spotted and the data will recall itself to enter the corent one.