

Project team 3 - Insurance Investigator

Team Members:

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PROJECT PROPOSAL

Context:

The software would aim at comparing different insurance companies' rates based on varying demographics of clients. It will also aim at being informative to detail the different expenses and benefits associated with insurance.

Scope:

Our database systems scope will be concerned with storing numerous rates available from each company based on demographics, the associated benefits, and information about the expenses and benefits. This will be covered for different types of insurance, such as vehicle, medical, dental, renters, and homeowners.

Objectives:

- The database will store rates based on demographics for each individual company.
- The database will store rates based on different levels of benefits for each individual company.
- The database will store rate savings based on combinations of insurances within a company. (i.e. If an individual has home and auto with the same insurance company.)
- The database will contain information about the expenses and benefits for each company.
- The database will store the above three points for each type of insurance (vehicle, medical, dental, renters, and homeowners).

PROJECT ENVIRONMENT

Briefly (in a paragraph or so) describe your project environment, including version numbers, etc. if relevant.

Our project environment will be set up with Amazon's Relational Database Services for MySQL. Amazon RDS supports MySQL database instances up to the major version MySQL 5.7. We chose their services as our

environment because all of the overhead will be managed on their end. They will set up the infrastructure, database software, and administrative tasks, such as backups and patching.

Host Name:

unccfall2018dbproject.cukyi9tv8fg2.us-east-2.rds.amazonaws.com

Username: root Password: fall2018

HIGH LEVEL REQUIREMENTS

Initial user roles

User Role	Description
User	Users will be able to access the database for information and rates.
Insurance Agent	Agents will be able to manage their insurance company's rates and information.
Administrator	Administrative user for the application.

Initial user story descriptions

Story ID	Story description
US1	As an Administrator, I want to manage users and insurance agents for the database.
US2	As a User, I want to be able to create an account and login so that I can store my information on the site.
US3	As a Insurance Agent, I want to be able to create an account and login so that I can store my company's information and rates on the site.
US4	As a User, I want to be able to update my account with information on my property to be insured so that I can store my current information on the site. For example, my vehicle, medical history, dental information, rental property, and house.
US5	As an Insurance Agent, I want to be able to add new

	rates so that I accurately portray new insurance plans.
US6	As an Insurance Agent, I want to be able to change and update rates so that I can accurately portray prices for users.
US7	As an Insurance Agent, I want to be able to add and update insurance information/explanations so that I accurately portray benefits and cost explanations for users.
US8	As a User, I want to search for rates for different companies so that I can compare costs.
US9	As a User, I want to search for rates based on different benefits amounts so that I can choose between different amounts of coverage.
US10	As a User, I want to customize rates based on my demographics so that I can find an insurance that fits me best.
US11	As a User, I want to bundle different types of policies so that I can get a discount on my insurance premium.
US12	As a User, I want to view explanations/information about benefits and costs so that I can understand my purchase.
US13	As a User, I want to be able to send a message to a Insurance Agent to request insurance coverage so that I can have any questions answered. Users must include their name, email, and telephone number.

HIGH LEVEL CONCEPTUAL DESIGN

Entities:

User
Administrator
Insurance_Agent
Company
Vehicle_Insurance_Policy
Medical_Insurance_Policy
Dental_Insurance_Policy

Renters_Insurance_Policy
Homeowners_Insurance_Policy
Vehicle_Insurance_Information
Medical_Insurance_Information
Dental_Insurance_Information
Renters_Insurance_Information
Homeowners_Insurance_Information
Message
Medical_History
Renters_History
Homeowners_History
Vehicle_History
Dependent_History
Bundling_Discounts
Customized_Rates

Relationships:

User has Medical_History
User has Renters_History
User has Homeowners_History
User has Vehicle_History
User has Dependent_History
Insurance_Agent sets Vehicle_Insurance_Policy
Insurance_Agent sets Medical_Insurance_Policy
Insurance_Agent sets Dental_Insurance_Policy
Insurance_Agent sets Renters_Insurance_Policy
Insurance_Agent sets Homeowners_Insurance_Policy
Insurance_Agent sets Vehicle_Insurance_Information
Insurance_Agent sets Medical_Insurance_Information
Insurance_Agent sets Dental_Insurance_Information
Insurance_Agent sets Renters_Insurance_Information
Insurance_Agent sets Homeowners_Insurance_Information
Insurance_Agent sets Bundling_Discounts
Insurance_Agent sets Customized_Rates
User sends a message to Insurance_Agent
Insurance_Agent works for Company
Vehicle_Insurance_Policy has Vehicle_Insurance_Information
Medical_Insurance_Policy has Medical_Insurance_Information
Dental_Insurance_Policy has Dental_Insurance_Information

Renters_Insurance_Policy has Renters_Insurance_Information
Homeowners_Insurance_Policy has
Homeowners_Insurance_Information