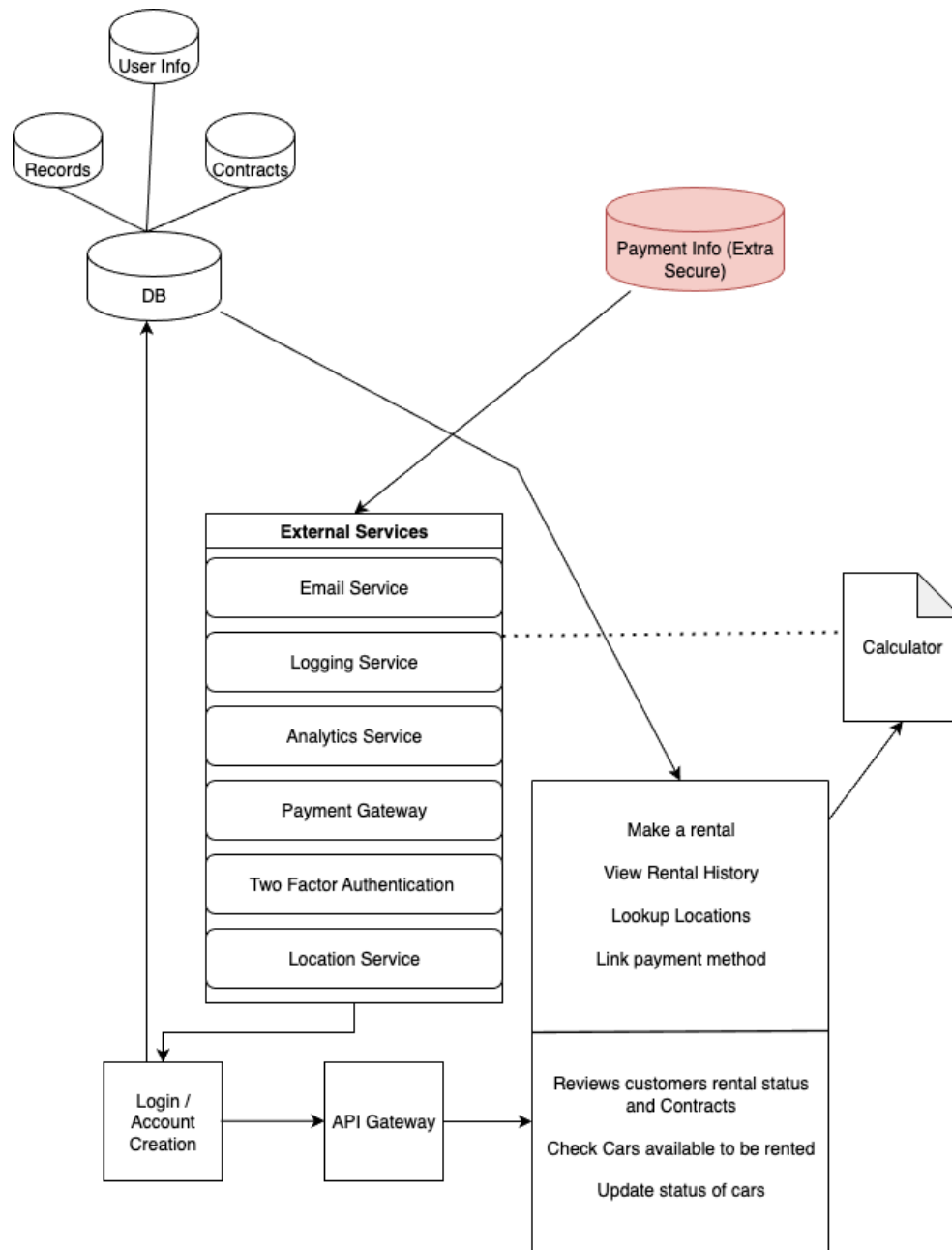


# Software Architecture Overview

- Architectural Diagram of all major components



- SWA Description

The architectural diagram illustrates how the major components are interconnected. Starting from the Login/Account Creation, it has access to the database, which includes customer records, user information, and contracts. Such privileges and access are granted to those who are employees of BeAvis. The Login also connects to the API Gateway, which is a service that verifies users' authorization to access the software. The API Gateway connects to the services the software provides: Make a rental, view rental history, look up locations, and link payment methods. The listed services are those accessible to customers. The other services shown are only accessible by employees, such as reviewing customers' rental status and contracts, checking car availability to be rented, and updating the status of cars. All these services are then connected to the calculator, which calculates the total amount the customer will be charged for the rental car. The external services are: email service, logging service, analytics service, payment gateway, two-factor authentication, and location service. The external services are connected to Log-in/Account Creation because they'll be catered to the particular users' settings and previous activity. The payment information database is extra secured, and has access to the external services to access the payment gateway. The external services should have a calculator to determine the total cost the customer will be charged for the car rental. The database is only accessible to employees and is in a separate database to prevent the chances of a data breach. The other database, which holds three different databases, connects to the services that are accessible to customers and/or employees because it retrieves customer information from the services they use, and it is stored in the appropriate database.