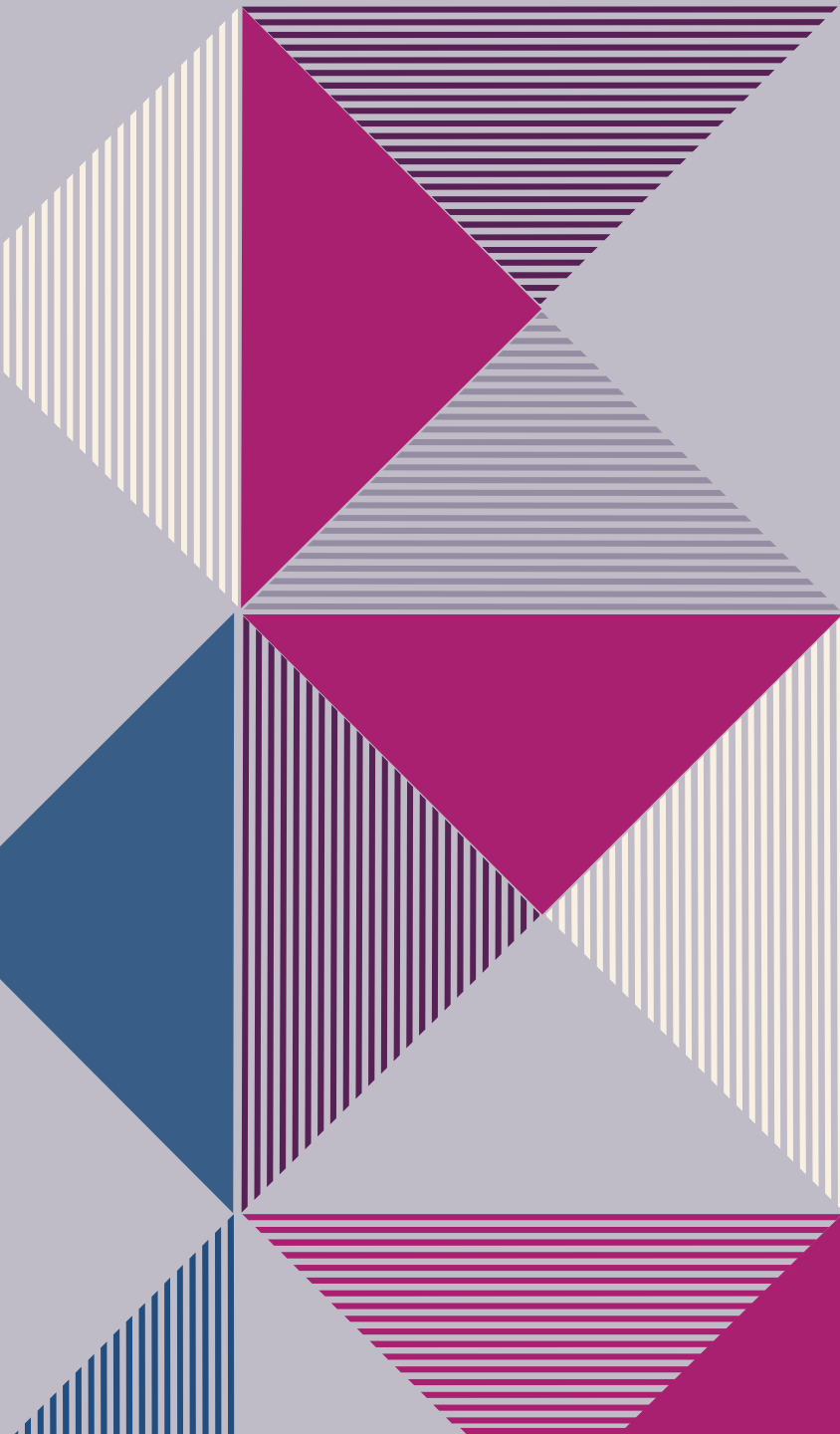




CROSS PLATFORM APPLICATION DEVELOPMENT

Submitted By:
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Ashutosh Karmakar (2022SP93073)

Team Number: 11
Batch: 2022-2YB



JEWELLERY RETAIL STORE BILLING APPLICATION

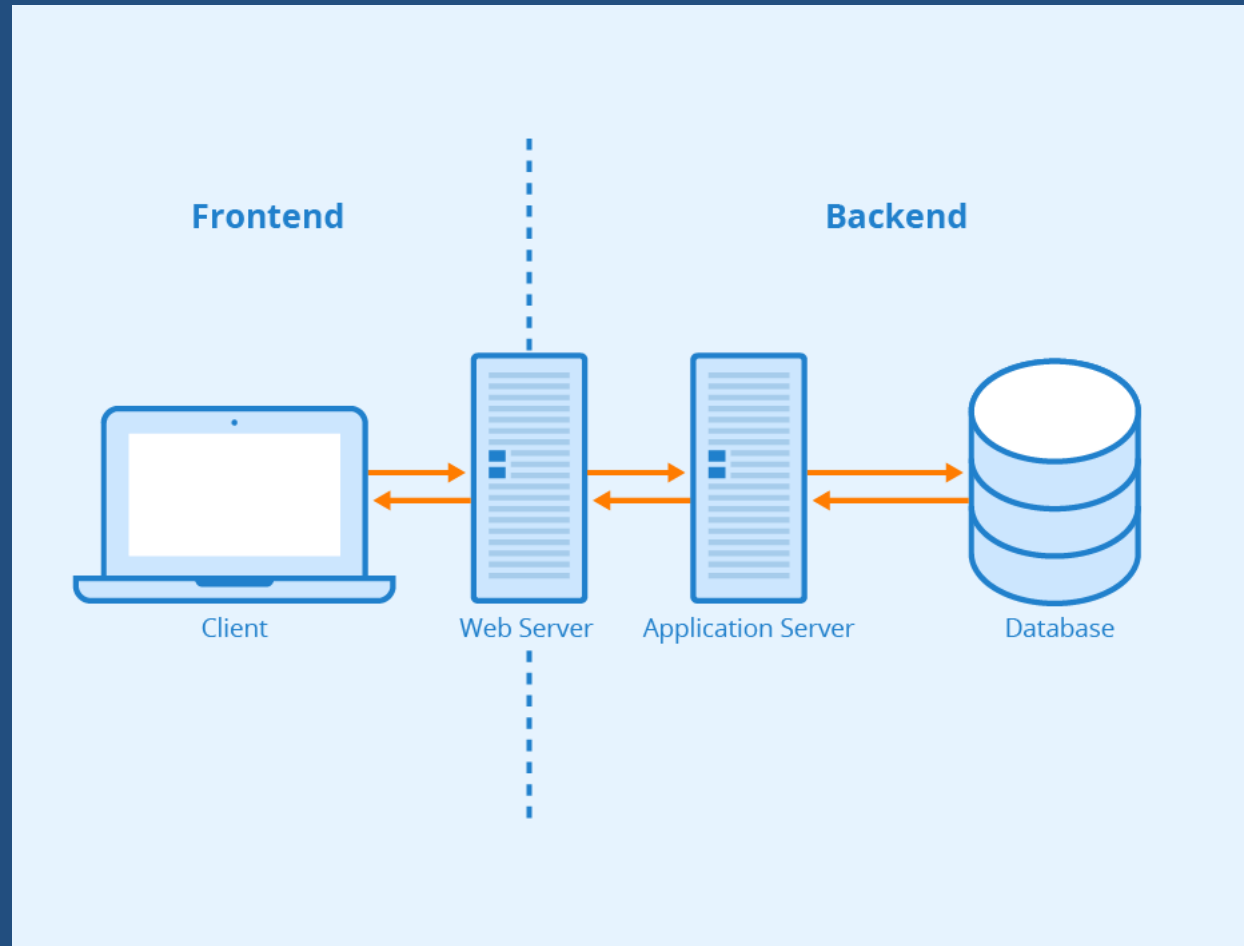
A decorative geometric pattern on the left side of the slide. It features a large light blue circle in the upper left, a dark blue square with concentric circles below it, a dark purple triangle to the right of the circle, a solid magenta square below the triangle, and a grey square with a diagonal line pattern in the bottom left. A small dark blue circle is positioned at the intersection of the triangle and the magenta square.

ABOUT THE PROJECT

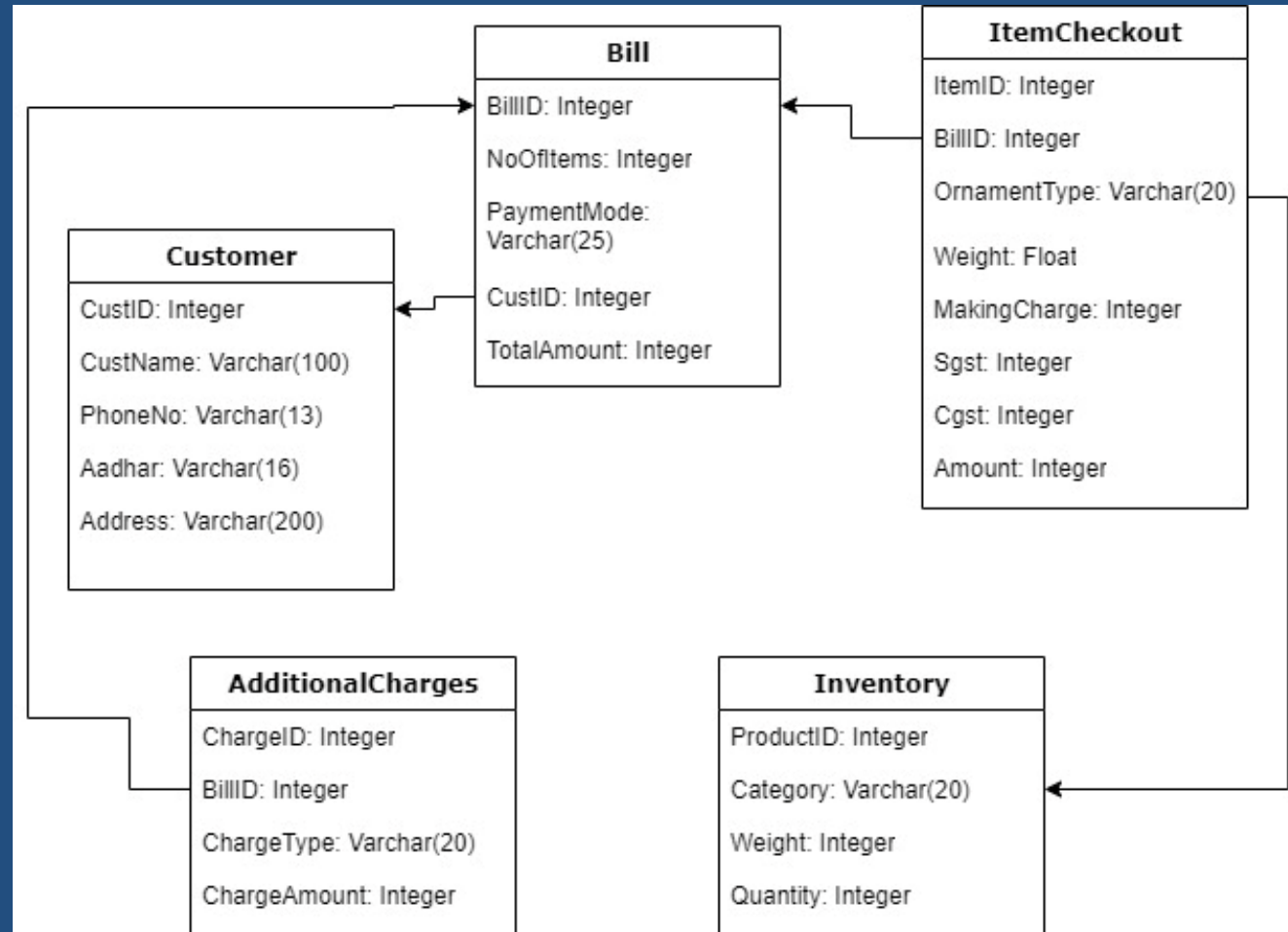
A Jewellery Retail Store Billing Application is software designed to manage various aspects of a jewellery retail store's operations, primarily focusing on the billing process. The software consist of Inventory Management, product addition and daily gold rate management . The application produces the bill in the form of PDF file. And in the future the functionalities like streamlining the full checkout process with barcode enabled, and tracking of sales data will be implemented.

Key functionalities include Inventory Management, POS System, Customer Management etc.

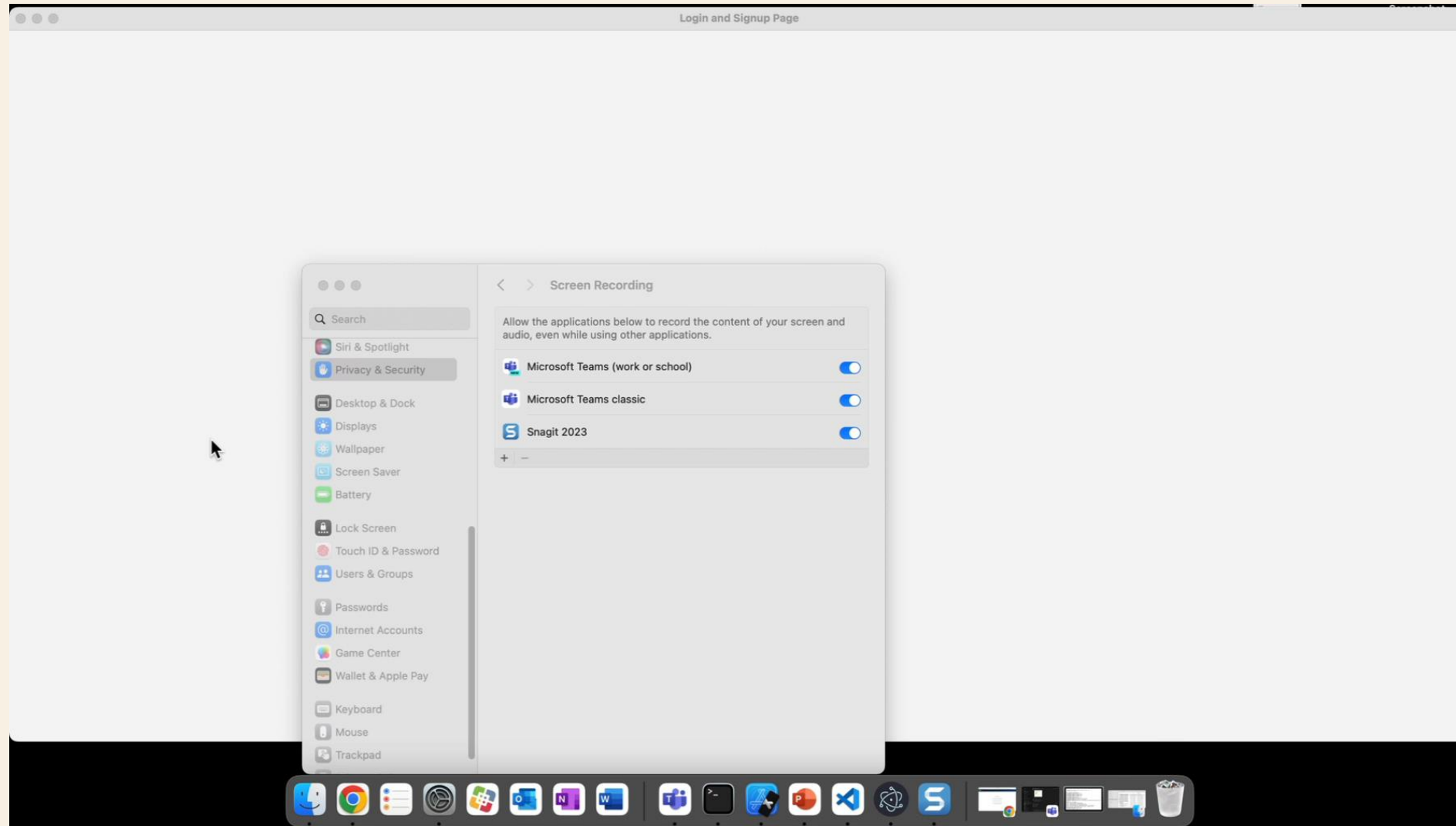
ARCHITECTURE DIAGRAM



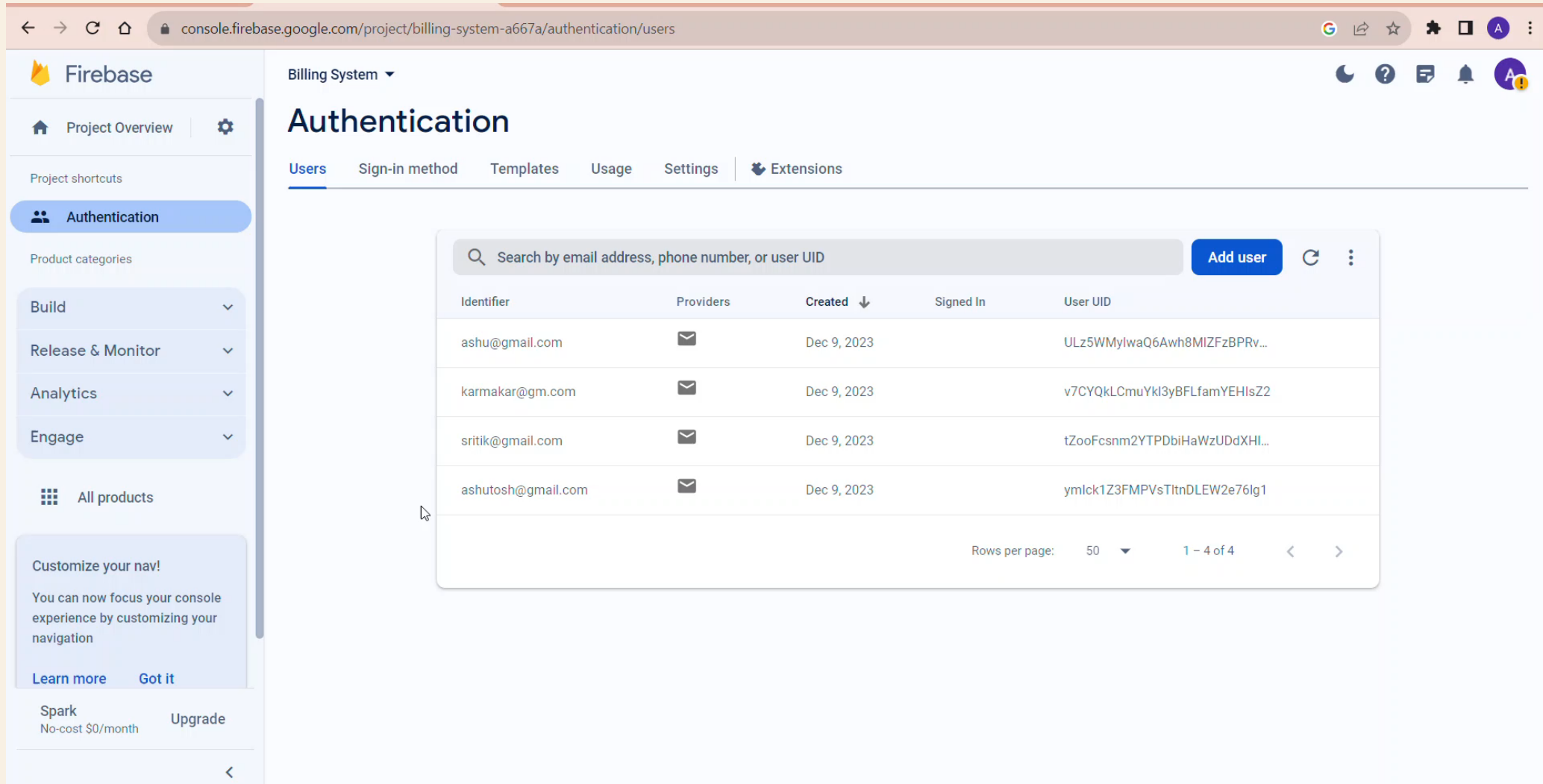
DB RELATIONSHIP DIAGRAM



DESKTOP APPLICATION DEMO



FIREBASE AND MONGODB DEMO



The screenshot displays the Firebase Authentication console for a project named "Billing System". The left sidebar contains navigation links for Project Overview, Authentication (selected), and various product categories like Build, Release & Monitor, Analytics, and Engage. The main content area shows the "Users" tab with a search bar and a table of users. The table lists four users, all created on Dec 9, 2023, with email addresses and unique User IDs. At the bottom, there's a pagination control showing "1 - 4 of 4" rows.

console.firebase.google.com/project/billing-system-a667a/authentication/users

Authentication

Users | Sign-in method | Templates | Usage | Settings | Extensions

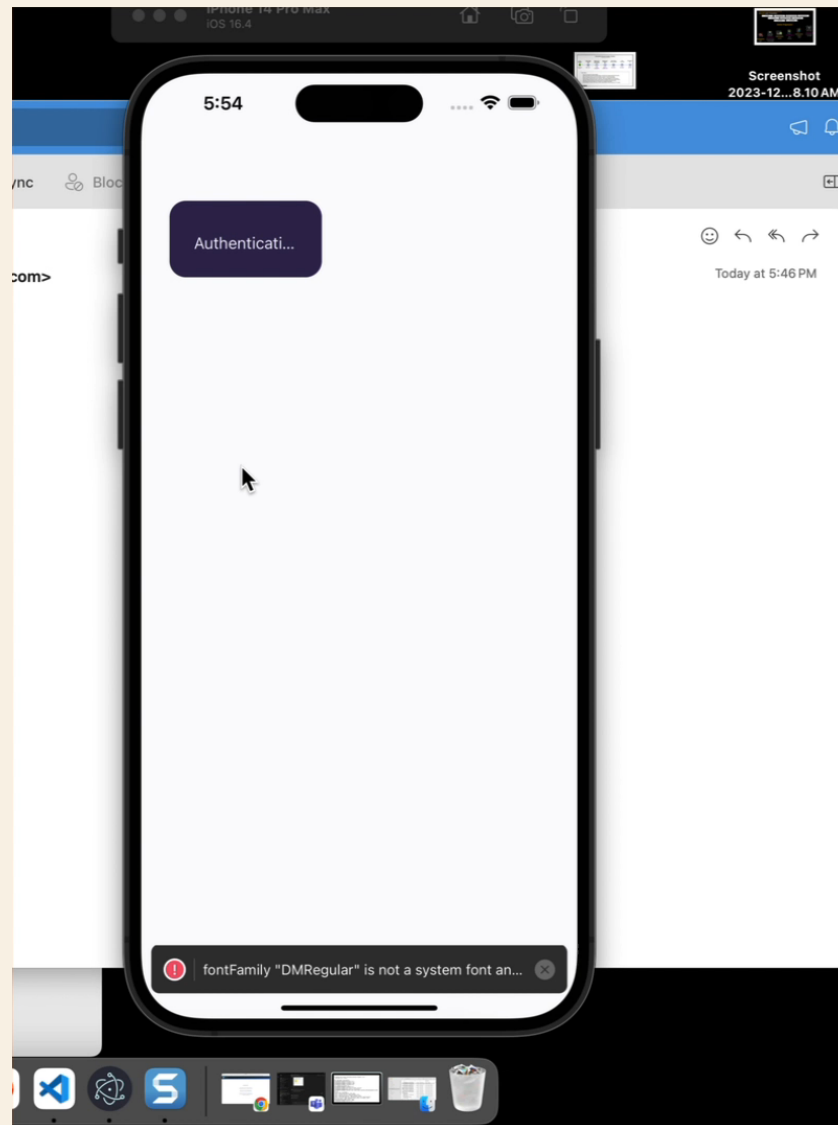
Search by email address, phone number, or user UID

Add user

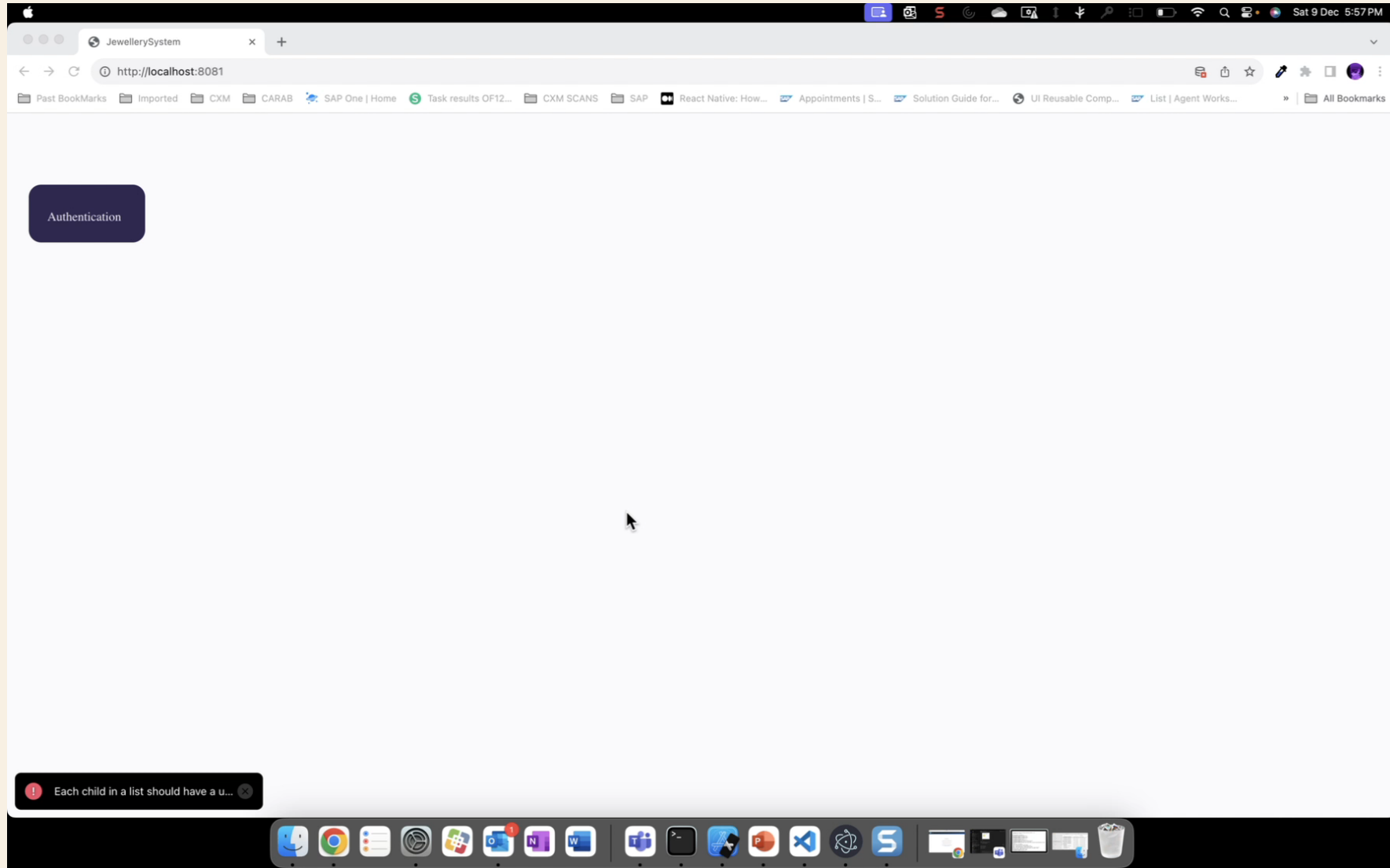
Identifier	Providers	Created ↓	Signed In	User UID
ashu@gmail.com	📧	Dec 9, 2023		ULz5WMyIwaQ6Awh8MIZfzBPRv...
karmakar@gm.com	📧	Dec 9, 2023		v7CYQkLCmuYkl3yBFLfamYEHlsZ2
sritik@gmail.com	📧	Dec 9, 2023		tZooFcsnm2YTPDbiHaWzUddXHI...
ashutosh@gmail.com	📧	Dec 9, 2023		ymIck1Z3FMPVsTltndLEW2e76lg1

Rows per page: 50 1 - 4 of 4

MOBILE APPLICATION DEMO



WEB APPLICATION DEMO





CHALLENGES

- DB implementation, we started with a MySQL database but due to lack of free resources we had to move to MongoDB cloud.
- PDF Generation of the Bill
- Dynamic UI, As we know we need the application to run on various platforms it is highly necessary for it to make it dynamic.
- Error detection and handling in the calculation of the amount.
- Rolling back of DB in case of failure.

An abstract geometric design on the left side of the slide. It features a dark blue background with various geometric shapes and patterns. A white circle is positioned near the top left. Below it, a light blue semi-circle is visible. To the right of the semi-circle, there is a pink triangle with diagonal lines. Further down, there is a pink square with a pattern of concentric lines. At the bottom, there is a pink triangle with a pattern of concentric lines. The overall design is modern and artistic.

THANK YOU