

Vivekanand Education Society's Institute of Technology
Department of Information Technology

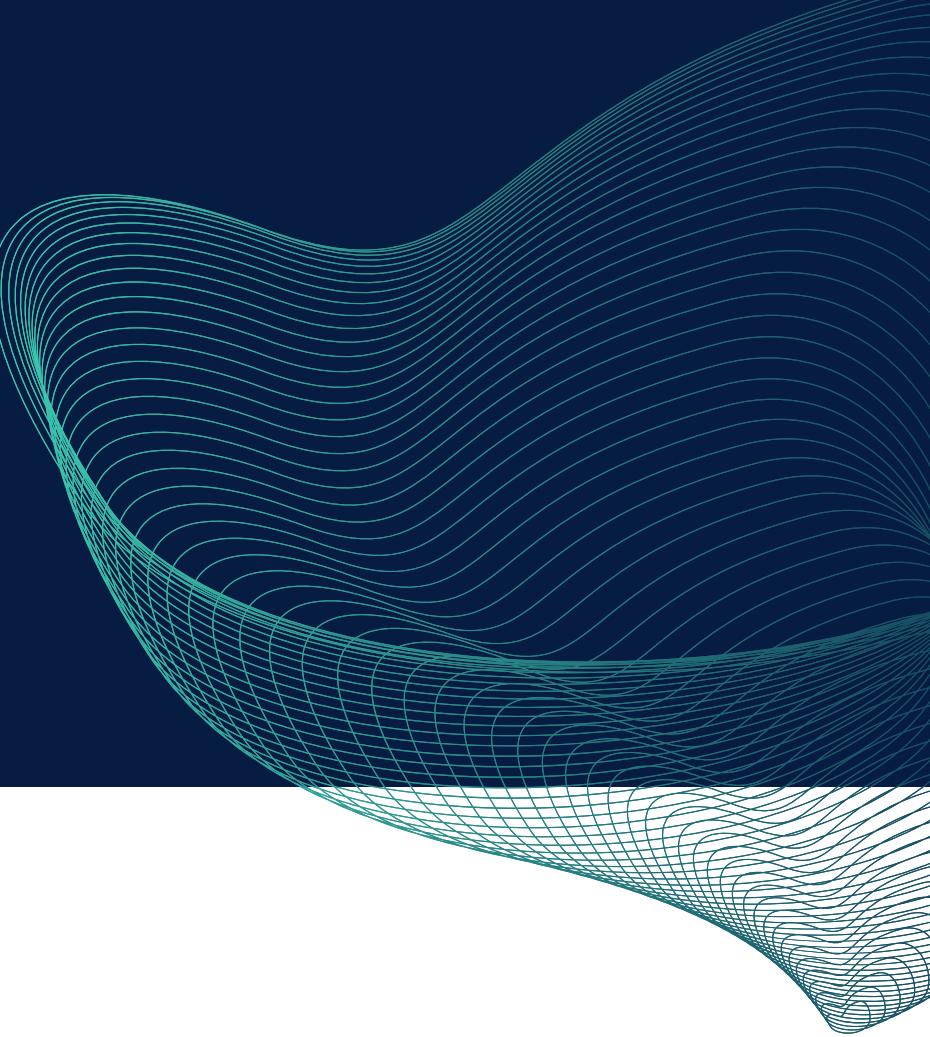
Invoice Ninja

Presented By
Sujal Sawdekar
Roll No. 61
Div: D15B
Batch C

Introduction

In today's dynamic business landscape, efficient management of financial transactions, client interactions, and product/service offerings is essential for sustained growth and success.

To address these challenges, the Invoice Ninja Admin Portal emerges as a cutting-edge solution, leveraging the power of Flutter to provide businesses with a centralized platform for streamlined management of invoices, payments, clients, and products/services.



Problem Statement

- Despite the availability of various business management tools, many organizations still struggle with manual processes, disparate systems, and lack of real-time insights.
- Businesses need a comprehensive solution that not only centralizes these operations but also offers flexibility, scalability, and automation to adapt to evolving needs and market dynamics.

Objectives of the Project:

- Provide businesses with a customizable dashboard that offers real-time insights into financial metrics, outstanding invoices, and received payments, facilitating informed decision-making.
- Incorporate reporting functionalities to generate insightful reports on financial performance, revenue, expenses, and taxes, empowering businesses with data-driven decision-making capabilities.
- Incorporate reporting functionalities to generate insightful reports on financial performance, revenue, expenses, and taxes, empowering businesses with data-driven decision-making capabilities.

Requirements of the System:

Development Environment:

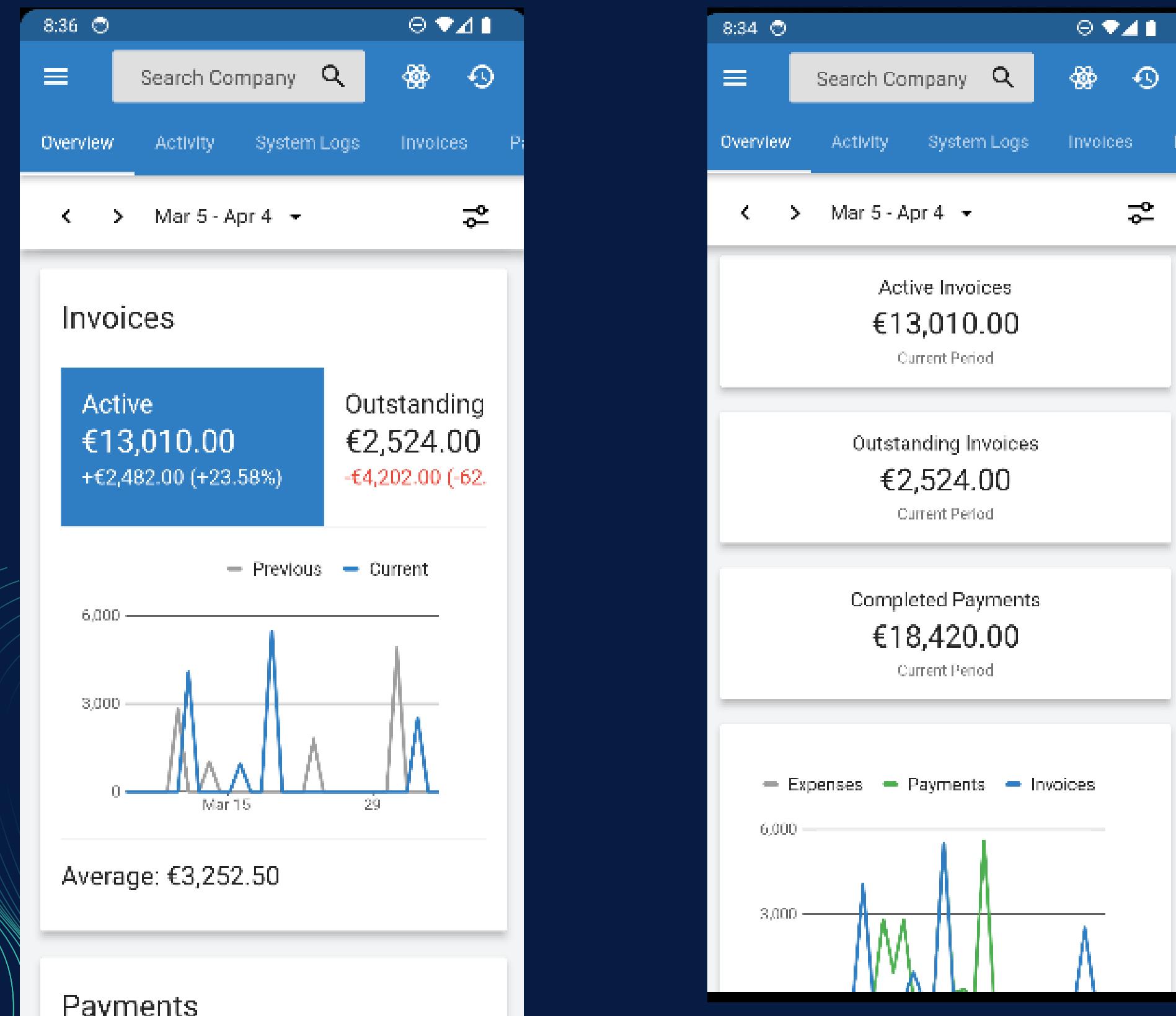
- Flutter SDK
- Dart
- Android Studio IDE
- Android emulator
- Git
- Firebase

Development Machine:

- Processor: Intel Core i5 or better (or equivalent)
- RAM: 8 GB minimum, 16 GB
- recommended Storage: At least 10 GB of free space for the development environment, dependencies, and project files.
- Internet Connection

Project Screenshots:

Dashboard



Add Clients:

8:38

Search 25 Clients

Bauch-Schamberger
0025 £0.00

Boyer, Brekke and Orn
0023 £0.00

Braun Group
0017 £0.00

Daniel, Kulas and Batz
0015 \$0.00

Graham, Mante and Bartell
0010 £0.00

Grant-Koch
0016 \$0.00

Hirthe, McDermott and Hammes
0024 £0.00

Johnston, Bechtelar and Langworth
0020 \$0.00

+ A-Z

8:38

New Client

Save

Details Contacts Notes Settings Billing Ad

Name

User

ID Number

VAT Number

Website

Phone

The develop...

q w e r t y u i o p
a s d f g h j k l
z x c v b n m
?123 , .

Add Products:

The image displays two screenshots of a mobile application interface for managing products.

Screenshot 1 (Left): Product List

This screenshot shows a list of 10 products. Each item consists of a name, a description, and a price. A blue circular button with a plus sign (+) is located at the bottom right of the list.

Name	Description	Price
A.	Dolorum nihil.	€29.00
Aut.	Placeat.	€76.00
Aut.	Expedita omnis.	€236.00
Aut.	Provident eaque qui.	€539.00
Culpa.	Voluptatum ut.	€277.00
Cum.	Tempora repellendus.	€402.00
Dolor.	Qui porro quasi et.	€88.00
Dolor.	Reiciendis ut.	€291.00

Screenshot 2 (Right): New Product Form

This screenshot shows a form for adding a new product. It includes fields for Product Name, Description, Price, Default Quantity (set to 1), and Tax. A keyboard is visible at the bottom, and a text input field contains the placeholder "The develop...".

Product: _____

Description: _____

Price: _____

Default Quantity: 1

Tax: _____

The develop...
q w e r t y u i o p
a s d f g h j k l
z x c v b n m
?123 . , @ . →

See Reports:

The image displays two side-by-side screenshots of a mobile application interface, likely from an Android device, showing a reporting feature.

Screenshot 1 (Left): The screen shows a "Reports" section with the following fields:

- Report Type: Client
- Group: (dropdown menu)
- Range: (dropdown menu)
- Chart: (dropdown menu)

Below these fields are three blue buttons: "Columns", "Export", and "Schedule". The main content area displays a table with the following data:

Currency ↑	Count	Balan
British Pound	7	£3,484.
Euro	6	€6,726.
US Dollar	12	\$10,680.

At the bottom of the table are two columns: "Name" and "Contact Email".

Screenshot 2 (Right): This screenshot shows a sharing dialog box titled "Sharing 1 file". It displays a file icon and the file name "client_report_2024-04-04_1712243455116.csv". Below this, it says "No recommended people to share with". At the bottom are three sharing options with icons: "Nearby Share" (blue circle), "Drive" (Google Drive icon), and "Gmail" (Gmail icon).

Literature Survey:

1. "Digital Transformation of Business Management: A Review of Technologies and Trends" by Smith et al. (2020)

- This paper provides an overview of digital technologies transforming business management, including web-based applications like Flutter for streamlined operations. It discusses the importance of centralized systems in enhancing efficiency and decision-making.

2. "Evaluating the Effectiveness of Invoice Management Systems: A Case Study Approach" by Patel et al. (2021)

- This case study evaluates the effectiveness of invoice management systems in improving organizational efficiency and reducing errors. It highlights the significance of features such as customizable templates and automated reminders in enhancing productivity.

Conclusion:

- The development of the Invoice Ninja Admin Portal represents a significant step forward in addressing the complexities of business management. Through the utilization of Flutter technology, this project has successfully created a versatile and efficient platform for managing invoices, payments, clients, and products/services.
- The Invoice Ninja Admin Portal offers a range of features designed to streamline workflows and enhance productivity. From customizable dashboards providing real-time insights to automated invoicing processes and comprehensive client management capabilities, the portal empowers businesses with the tools they need to succeed in today's competitive environment.

Progressive Web Application

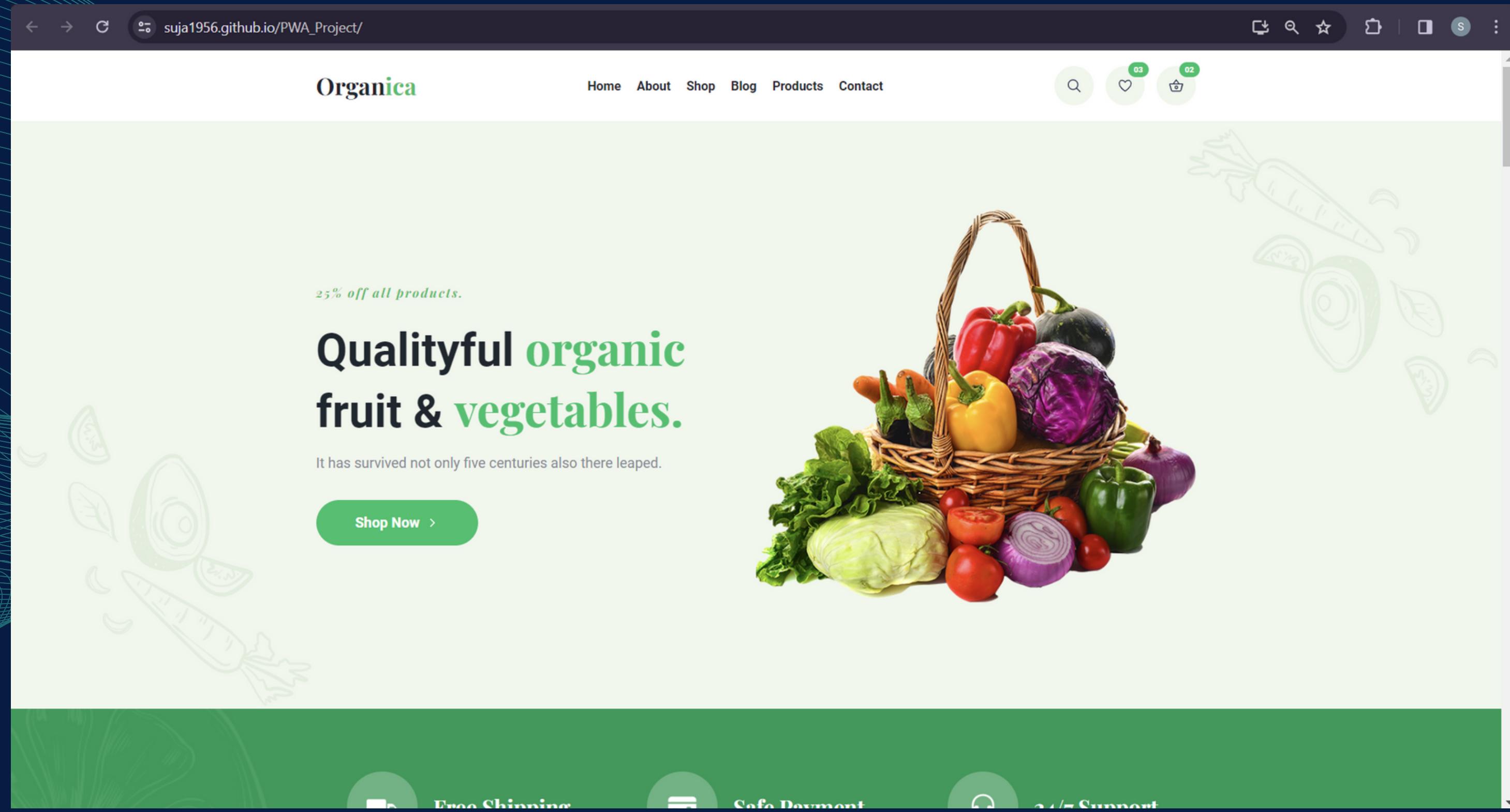
Introduction

Progressive Web Apps (PWAs) are a cutting-edge approach to web development that combines the best features of web and mobile applications. These applications are built using web technologies such as HTML, CSS, and JavaScript but offer capabilities traditionally associated with native mobile apps, including offline functionality, push notifications, and access to device hardware.

Problem Statement:

- Need for a solution that enables businesses and developers to create fast, reliable and app-like experiences on the web, leveraging modern web technologies and best practices.
- Add Progressive Web Application features using service worker in ecommerce website.

Implementation:



A screenshot of a web browser displaying the homepage of a PWA named "Organica". The URL in the address bar is "suja1956.github.io/PWA_Project/". The page features a dark blue header with the word "Organica" in white and green. Below the header is a navigation bar with links to Home, About, Shop, Blog, Products, and Contact. To the right of the navigation bar are three circular icons: a search icon with a magnifying glass, a heart icon with the number "03", and a shopping bag icon with the number "02". The main content area has a light green background. It includes a promotional message "25% off all products." in green, followed by a large, bold title "Qualityful organic fruit & vegetables." in black and green. Below the title is a smaller text "It has survived not only five centuries also there leaped.". A green button labeled "Shop Now >" is positioned below this text. To the right of the text is a large image of a basket overflowing with various fresh fruits and vegetables, including bell peppers, onions, and leafy greens. The bottom of the page has a green footer bar with three white circular icons and their corresponding text: "Free Shipping", "Safe Payment", and "24/7 Support".

suja1956.github.io/PWA_Project/

Organica

Home About Shop Blog Products Contact

25% off all products.

Qualityful organic fruit & vegetables.

It has survived not only five centuries also there leaped.

Shop Now >

Free Shipping

Safe Payment

24/7 Support

Implementation:

The screenshot shows a web browser window displaying the 'Organica' PWA homepage. The URL in the address bar is `suja1956.github.io/PWA_Project/`. The page features a dark blue header with the 'Organica' logo and a navigation menu with links to Home, About, Shop, Blog, Products, and Contact. Below the header is a large banner with a green background. On the left side of the banner, there's a promotional message: *25% off all products.* In the center, the text **Qualityful organic fruit & vegetables.** is displayed in a large, bold font. To the right of the text is a wicker basket overflowing with various fresh fruits and vegetables, including bell peppers, onions, and leafy greens. A semi-transparent overlay on the right side of the banner displays a 'Install app?' dialog box. The dialog box has a dark background with a white border. It features a small icon of a carrot, the text 'PWA Tutorial suja1956.github.io', and two buttons: 'Install' (in white) and 'Cancel' (in purple). The overall design of the website is clean and modern, with a focus on organic produce.

Implementation:

The screenshot displays the **Organica** PWA homepage on the left and the **Application** tab of the Chrome DevTools on the right.

Organica PWA Homepage:

- Header:** Shows the title "Organica" and a navigation menu icon.
- Hero Section:** Features a large image of a basket filled with various organic vegetables (carrots, bell peppers, onions, tomatoes, etc.) and text:
 - "25% off all products."
 - "Qualityful organic fruit & vegetables."
 - A quote: "It has survived not only five centuries also there leaped."
- Call-to-Action:** A green button labeled "Shop Now >".

Chrome DevTools Application Tab:

- Service workers:** Shows a service worker registered at `http://127.0.0.1:5500/PWA_Project/`.
 - Source: `service-worker.js`
 - Received: 4/4/2024, 10:52:06 PM
 - Status: #1704 activated and is running
 - Push: `{"method": "pushMessage", "message": "Your favorite vegetable is restocked!"}`
 - Sync: `syncData`
 - Periodic Sync: `test-tag-from-devtools`
 - Update Cycle: Shows three events: Install, Wait, and Activate.
- Console:** Shows log entries related to fetch events, service worker registration, push message clicks, and push notification sends.
- Issues:** Shows two issues with 2 pending notifications.

Bottom Right: A notification bubble from Google Chrome stating: "new notification Your wishlist vegetable was restocked! 127.0.0.1:5500".

Analysis:

The screenshot shows a web browser window with the URL `127.0.0.1:5500/PWA_Project/index.html`. The browser's developer tools are open, specifically the Lighthouse audit tab. The audit results are as follows:

Metric	Score	Status
Performance	97	Green
Accessibility	90	Green
Best Practices	93	Green
SEO	80	Yellow
PWA	Pass	Green

The Lighthouse report also includes a large green circle with the score **97** under the heading **Performance**. A preview of the website is shown on the right, featuring a banner with a 25% discount on all products and a basket of fresh vegetables.

Organica

25% off all products.

Qualityful organic fruit & vegetables.

It has survived not only five centuries also there leaped.

Shop Now

Free Shipping Safe Payment 24/7 Support

Console What's new Issues

Default levels ▾ 3 Issues: 1 2

- 14 fetch event triggered
- push message clicked
- Push notification sent
- Sync successful
- ⚠ The FetchEvent for "<https://unpkg.com/ionicons@5.5.2/dist/ionicons/ionicons.esm.js>" resulted in a network error response: the promise was rejected.
- ⚠ The FetchEvent for "<https://fonts.googleapis.com/css2?family=Playfair+Display:ital,wght@1,400>" resulted in a network error response: the promise was rejected.

Conclusion:

The PWA ecommerce app showcases the potential of Progressive Web Apps in offering a convenient and accessible online shopping experience. With its user-friendly interface and installable feature, the app demonstrates the versatility of web technologies in delivering seamless ecommerce solutions.