

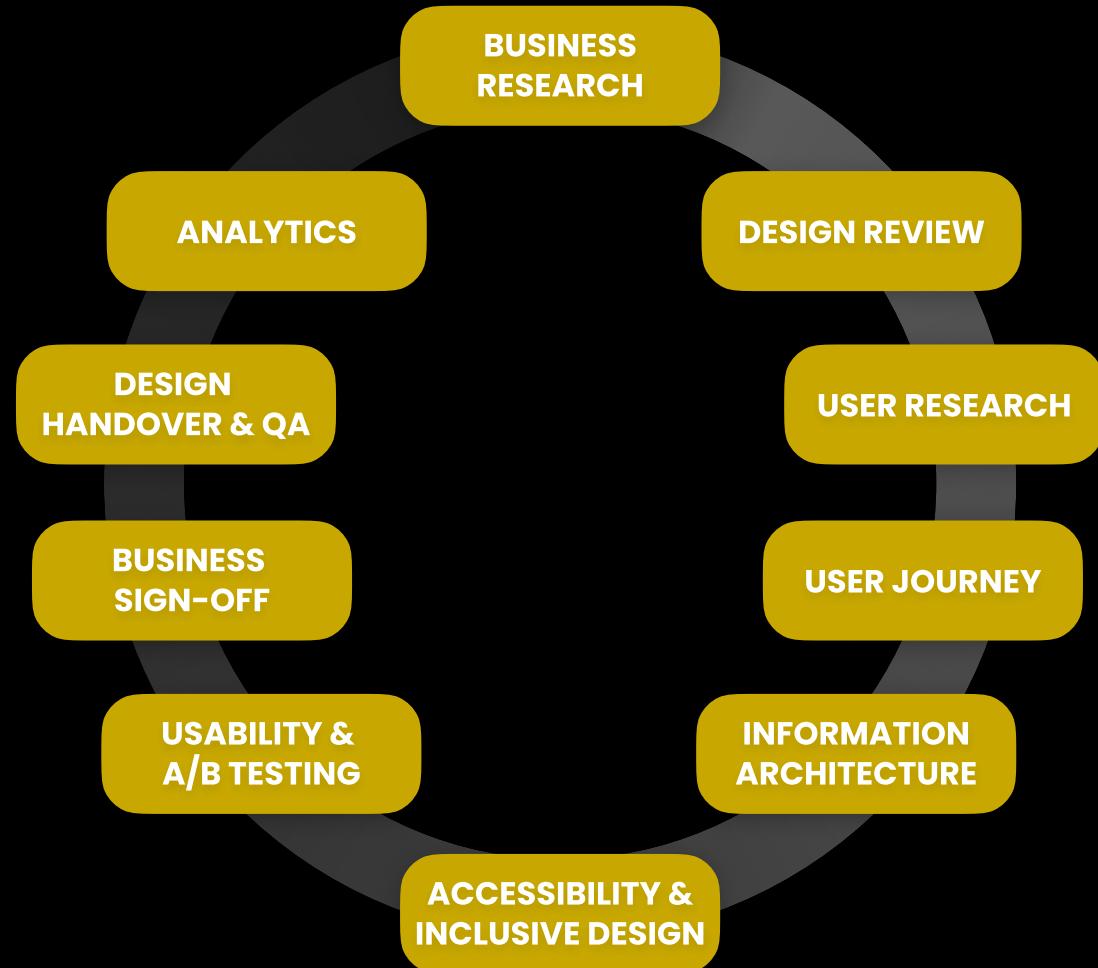
# ABOUT ME

Welcome to my UX portfolio! I'm Bambo Masuku, an IT professional specializing in UX/UI design from 2016 to 2024. With a background in Web Development, Frontend Development, and a Diploma and BTECH( 2 outstanding modules), I focus on creating seamless digital experiences that blend aesthetic appeal with intuitive functionality.



# Design process

I've created a process to have a solid foundation for my work as a designer within different organisations.



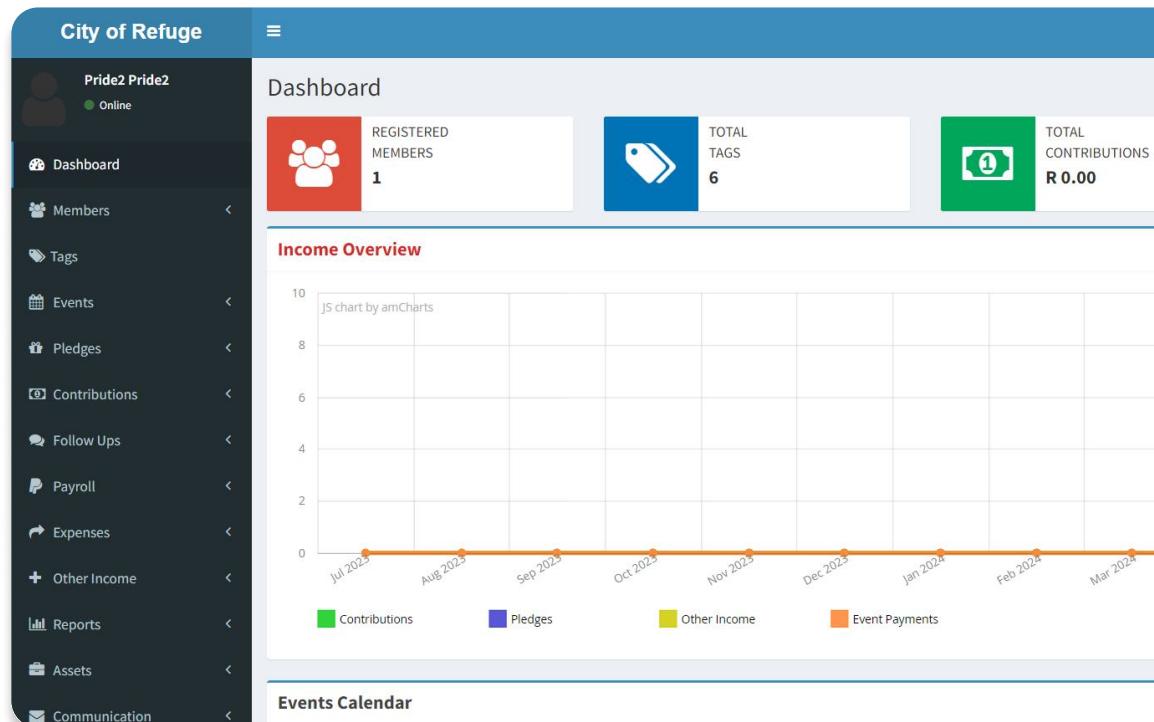
# Administrative Church System

## OVERVIEW

This case study focuses on designing an Administrative Church System (ACS) that integrates functionalities for managing church assets, maintaining member records, tracking pledges, and facilitating communication. The system aims to streamline administrative processes, enhance transparency, and foster community engagement within the church.

## CHALLENGE

To develop a comprehensive ACS that meets the diverse needs of church administrators, clergy, and congregation members. The system should facilitate efficient management of church assets, provide accurate member information, automate pledge tracking, and enable seamless communication via various channels.



# Administrative Church System

The screenshot shows the 'Members' section of the administrative system. On the left is a dark sidebar with various menu items like Dashboard, Members, Events, Pledges, Contributions, Follow Ups, Payroll, Expenses, Other Income, and Reports. The 'Members' item is currently selected. The main area has a light blue header 'Members'. Below it is a table with columns: ID, Name, Photo, Phone, Gender, Age, Address, and Action. There is one row visible with ID 1, Name 'Pride Masia', Phone '0797224188', Gender 'Male', Age '30', and Address 'Not specified'. The 'Action' column contains a small blue square icon. A modal window is open over the table, showing details for 'Pride Masia': Name, Phone, Gender, Age, Address, and a 'Details', 'Edit', and 'Delete' button. At the bottom right of the modal is a page number '1' and a 'Next' button.

## Goals:

1. Integrated Platform: Create a unified platform that centralizes church operations, including asset management, member database, pledge tracking, and communication tools.

2. Efficiency: Streamline administrative tasks such as asset inventory, member registration, pledge recording, and reporting to save time and resources.

3. Transparency: Enhance transparency by providing real-time access to financial data, member contributions, and church activities for stakeholders.

4. Communication: Enable effective communication through automated notifications, newsletters, and event announcements to keep members informed and engaged.

The screenshot shows the 'Profit / Loss' section. The sidebar includes 'Members', 'Events', 'Pledges', 'Contributions', 'Follow Ups', 'Payroll', 'Expenses', 'Other Income', 'Reports', 'Cash Flow', and 'Profit / Loss'. The 'Profit / Loss' item is selected. The main area has a light blue header 'Profit / Loss'. Below it is a table titled 'Profit / Loss Statement' with columns 'Operating Profit (P)' and 'Balance'. It lists contributions, pledges, event payments, other income, operating expenses, payroll, and expenses. The total balance is '10,000.00'. To the right is a chart titled 'Monthly Net Income' showing a flat line at 0 from July 2023 to July 2024. Below the chart is a link 'Operating Profit / Operating Expenses'.

## Process:

### 1. Research & Discovery:

- Conducted interviews and workshops with church administrators, clergy, and members to understand current pain points and operational challenges.
- Analyzed existing church management systems to identify gaps and opportunities for improvement.

### 2. User Stories & Persona Development:

- Developed user stories to capture key scenarios and tasks that the ACS should support (e.g., managing church events, tracking donations).
- Created personas representing typical users such as Pastor John, Administrator Sarah, and Member Emily.

### 3. Information Architecture & Wireframing:

- Designed information architecture to organize church assets, member profiles, pledge records, and communication features in a structured manner.
- Created low-fidelity wireframes to visualize the layout and interaction flow of key screens, ensuring ease of navigation and usability.

### 4. UI Design:

- Applied a clean and professional design language that reflects the church's values and brand identity.
- Designed intuitive interfaces for asset management, member profiles, pledge recording, and communication tools, focusing on clarity and accessibility.

### 5. Prototyping & Iteration:

- Developed interactive prototypes using tools like Figma or Adobe XD, allowing stakeholders to navigate through key features and provide feedback.
- Conducted usability testing sessions with church administrators and members to validate design decisions and iterate based on user feedback.

### 6. Implementation & Testing:

- Collaborated with developers to implement the design, ensuring functionality and performance across different devices and platforms.
- Conducted thorough testing to identify and address any bugs or usability issues before the system's deployment.
- Provided training and support to church staff and volunteers to ensure smooth adoption and use of the ACS.

## Results:

- Streamlined Operations: The ACS enables efficient management of church assets, accurate tracking of member information, and automated recording of pledges.
- Improved Transparency: Stakeholders have real-time access to financial reports, member contributions, and other relevant data, enhancing transparency and accountability.
- Enhanced Communication: Automated communication features such as newsletters, event reminders, and announcements fostered better engagement and participation among church members.

# Clinic & Patient Management System

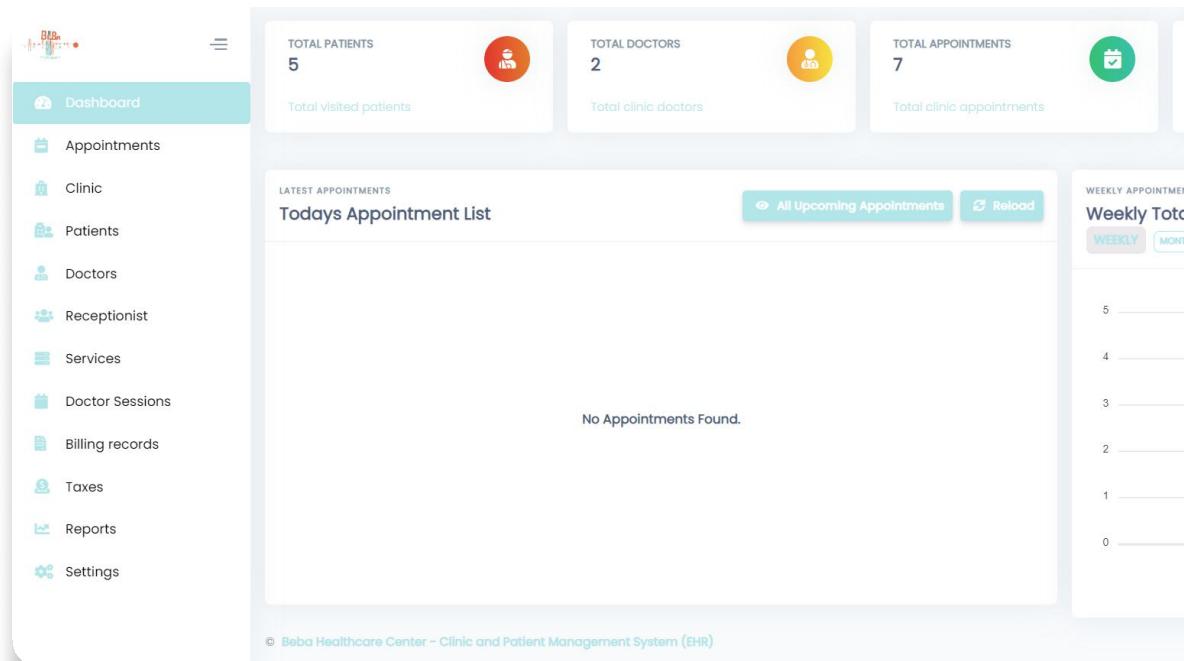
Designing a comprehensive Clinic & Patient Management System

## OVERVIEW

Designing a comprehensive Clinic & Patient Management System (CPMS) involves creating a seamless user experience for healthcare professionals and patients alike. This case study focuses on the UX/UI design process for such a system, emphasizing usability, efficiency, and accessibility.

## CHALLENGE

To develop a CPMS that integrates various functionalities to streamline clinic operations, enhance patient care, and ensure data security. The system should cater to different user roles (doctors, nurses, administrators, and patients) while maintaining a user-friendly interface.



# Clinic & Patient Management System

The screenshot shows the 'Clinic List' page. On the left is a sidebar with icons for Dashboard, Appointments, Clinic (selected), Patients, Doctors, Receptionist, Services, Doctor Sessions, Billing records, Taxes, Reports, and Settings. The main area has a header 'Clinic List' with a search bar and buttons for 'Import data' and '+ Add clinic'. Below is a table with columns: ID, Name, Email, Clinic Admin Email, Contact No, Specialization, Clinic address, Status, and Action. Two clinics are listed:

ID	Name	Email	Clinic Admin Email	Contact No	Specialization	Clinic address	Status	Action
2	Paediatric Dental	admin@drnetshimboni.co.za	admin@drnetshimboni.co.za	+27 123208508	Dentist	Shop 15, Ground Floor Louis Pasteur Hospital   374 Francis Baard street, Pretoria, 0002, South Africa	ACTIVE	
1	Nutriant Paediatrics	info@drnetshimboni.co.za	-	27 12320 8508	Paediatrician	Shop 15, Ground Floor   Louis Pasteur Hospital   374 Francis Baard street, Pretoria, 0002, South Africa	ACTIVE	

At the bottom are buttons for 'Rows per page: 10', 'Page 1 of 1', and navigation arrows.

## Goals:

1. User-Centered Design: Prioritize the needs of doctors, nurses, administrators, and patients through intuitive navigation and task-focused interfaces.

2. Efficiency: Reduce time spent on administrative tasks by automating processes such as appointment scheduling, patient record management, and billing.

3. Accessibility: Ensure the system is accessible to all users, including those with disabilities, by adhering to accessibility standards (e.g., WCAG).

4. Data Security: Implement robust security measures to protect patient data and comply with healthcare regulations (e.g., HIPAA).

The screenshot shows the 'Doctors List' page. The sidebar is identical to the previous one. The main area has a header 'Doctors List' with a search bar and buttons for 'Import data' and '+ Add doctor'. Below is a table with columns: ID, Name, Clinic, Email, Mobile, Specialization, Status, and Action. Two doctors are listed:

ID	Name	Clinic	Email	Mobile	Specialization	Status	Action
17	Nana Netshimboni	Paediatric Dental	dmama@drnetshimboni.co.za	+27 0123208508	Dentist	ACTIVE	
2	Rendani Netshimboni	Nutriant Paediatrics	rendani@drnetshimboni.co.za	+27 724326306	Paediatrician	ACTIVE	

At the bottom are buttons for 'Rows per page: 10', 'Page 1 of 1', and navigation arrows.

## Process:

### 1. Research & Discovery:

- Conducted interviews and workshops with healthcare professionals (doctors, nurses, administrators) to understand pain points and workflow challenges.
- Analyzed existing CPMS to identify usability issues and areas for improvement.

### 2. User Personas:

- Developed personas based on research insights, representing typical users such as Dr. Smith (primary care physician), Nurse Rodriguez (clinic nurse), and Mr. Johnson (patient).

### 3. Information Architecture & Wireframing:

- Created information architecture (IA) to structure the system logically, mapping out key functionalities (e.g., appointment scheduling, patient records, billing).
- Developed low-fidelity wireframes to visualize layout and interaction flow, ensuring alignment with user needs.

### 4. UI Design:

- Applied a clean and professional design language, considering healthcare industry standards and best practices.
- Designed high-fidelity mockups with attention to detail (e.g., typography, color scheme) to enhance usability and visual appeal.

### 5. Prototyping & Iteration:

- Developed interactive prototypes using tools like Figma or Sketch, allowing stakeholders to experience navigation and functionality firsthand.
- Conducted usability testing sessions with representative users to gather feedback and iteratively improve design.

### 6. Implementation & Testing:

- Collaborated with developers to ensure seamless integration of design elements and functionality.
- Conducted rigorous testing to identify and resolve any usability issues or bugs before deployment.

## Results:

- Improved User Experience: Positive feedback from users regarding ease of use and efficiency in completing tasks such as scheduling appointments and accessing patient records.

- Enhanced Efficiency: Reduced administrative workload for healthcare professionals, allowing them to focus more on patient care.

- Increased Patient Satisfaction: Patients reported improved communication with healthcare providers and easier access to their health information.

# Baby Growth Tracker Mobile App

## BACKGROUND

This case study focuses on designing a mobile app that enables parents to easily track and monitor their baby's growth metrics such as length, height, and head circumference. The app aims to replace traditional methods of recording growth data in books or spreadsheets with a convenient and user-friendly digital solution.



## Welcome back!

 Username

email doesn't exist

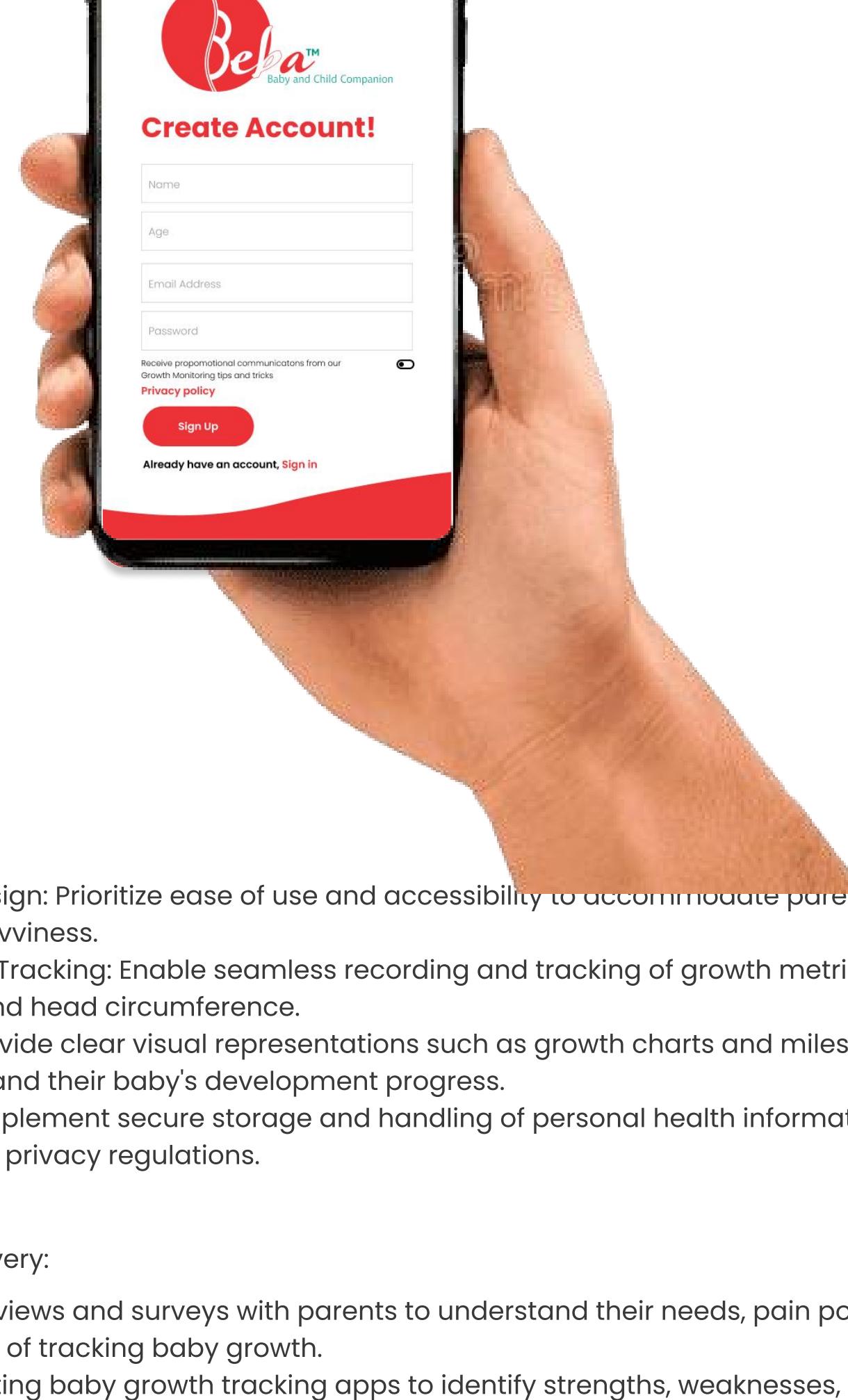
 Password[Forgot Password](#)[Sign In](#)[Don't have an account, Sign up](#)

Or sign in with



# Baby Growth Tracker Mobile App

Create an intuitive and engaging mobile app interface that allows parents to record, track, and visualize their baby's growth metrics over time. The app should cater to both new and experienced parents, ensuring it is easy to use while providing valuable insights into their child's development.



## Goals:

1. User-Centric Design: Prioritize ease of use and accessibility to accommodate parents with varying levels of tech-savviness.
2. Comprehensive Tracking: Enable seamless recording and tracking of growth metrics including length, height, and head circumference.
3. Visualization: Provide clear visual representations such as growth charts and milestones to help parents understand their baby's development progress.
4. Data Security: Implement secure storage and handling of personal health information in compliance with privacy regulations.

## Process:

### 1. Research & Discovery:

- Conducted interviews and surveys with parents to understand their needs, pain points, and current methods of tracking baby growth.
- Researched existing baby growth tracking apps to identify strengths, weaknesses, and opportunities for improvement.

### 2. User Stories & Persona Development:

- Developed user stories to capture key scenarios and tasks that the app should support (e.g., recording daily growth measurements, setting growth goals).
- Created personas representing typical users such as Amy, a first-time mom, and David, a tech-savvy dad.

### 3. Information Architecture & Wireframing:

- Designed information architecture to structure the app logically, defining key screens and navigation flow.
- Created low-fidelity wireframes to outline the layout and functionality of each screen, focusing on simplicity and clarity.

### 4. UI Design:

- Applied a baby-friendly and calming color palette and imagery to create a welcoming atmosphere for parents.
- Designed intuitive and responsive UI elements, considering touch interaction and accessibility on mobile devices.
- Developed high-fidelity mockups with detailed visual design elements (icons, typography) to enhance usability and engagement.

### 5. Prototyping & Iteration:

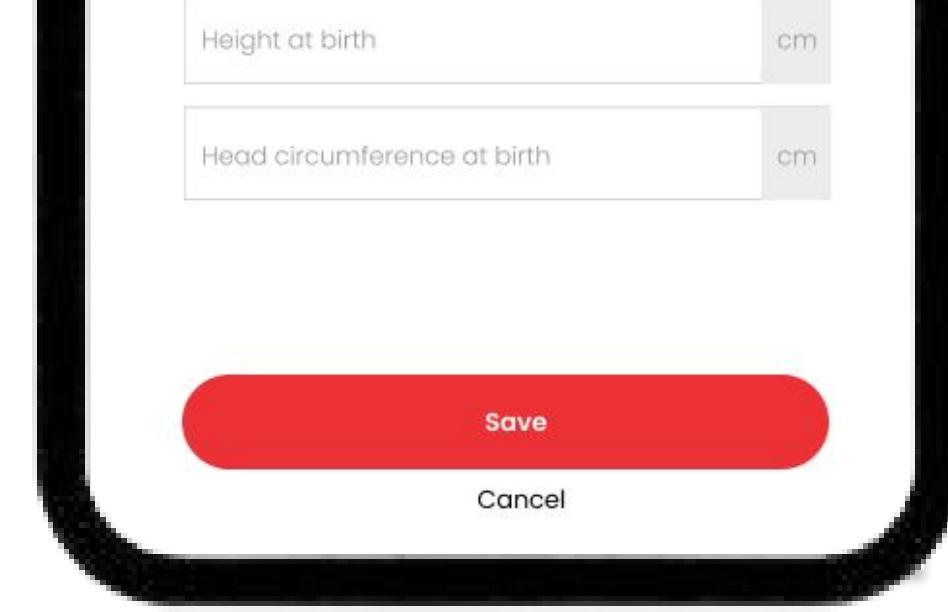
- Built interactive prototypes using tools like Adobe XD or InVision, allowing stakeholders to navigate through key app features and flows.
- Conducted usability testing sessions with parents to gather feedback on usability, functionality, and overall user experience.
- Iteratively refined the design based on user feedback to optimize usability and address pain points.

### 6. Implementation & Testing:

- Collaborated closely with developers to ensure the design was implemented accurately and seamlessly integrated with backend systems (e.g., data storage, analytics).
- Conducted thorough testing across different devices and operating systems to identify and resolve any bugs or performance issues.

## Results:

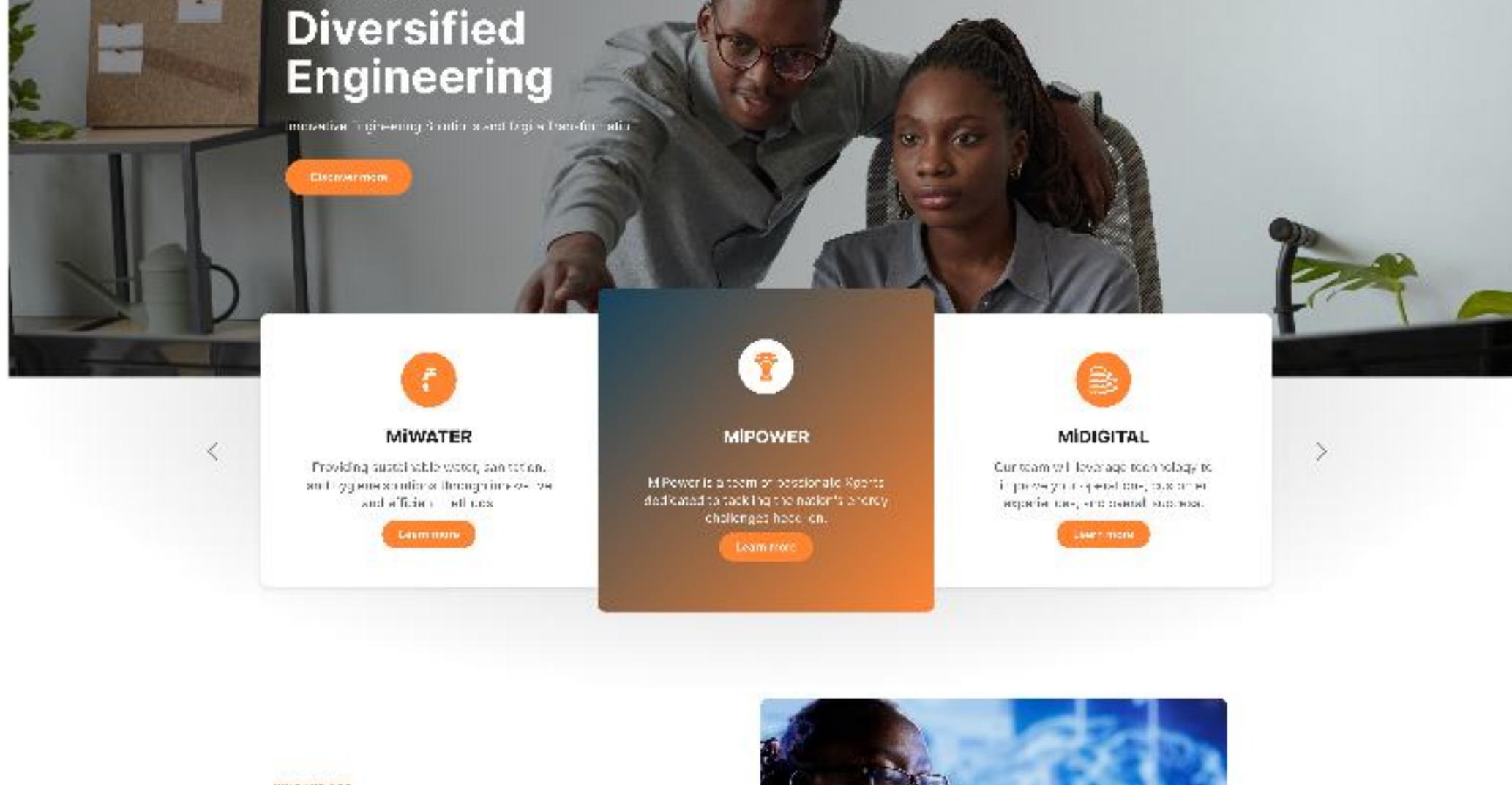
- Simplified Tracking: Parents can easily record and track their baby's growth metrics directly on their mobile devices, eliminating the need for manual entry in paper records.
- Visual Insights: Clear and interactive growth charts provide visual insights into their baby's development progress over time, helping parents identify trends and milestones.
- Positive User Feedback: Parents appreciate the app's user-friendly interface and its ability to streamline the tracking process, enhancing their overall experience of monitoring their baby's growth.



# PWDXperts UX Design

The screenshot shows the homepage of the PWDXperts website. At the top, there is a navigation bar with links: Home (highlighted in orange), About Us, Our Projects, Business Units, Our Partners, CSI, Corporate Deck, and a Contact Us button. Below the navigation is a large banner featuring a man and a woman working together at a desk, looking at a laptop screen. The banner has a semi-transparent dark overlay with the text "WELCOME TO PWD XPERTS" and "Diversified Engineering". Below the banner, there are three cards representing different business units:

- MiWATER**: Provides sustainable water, sanitation, and hygiene solutions through reuse and recycling technologies. [Learn more](#)
- MIPOWER**: A team of passionate experts dedicated to tackling the nation's energy challenges head-on. [Learn more](#)
- MIDIGITAL**: A team that leverages technology to improve operational efficiency and service delivery across various sectors. [Learn more](#)

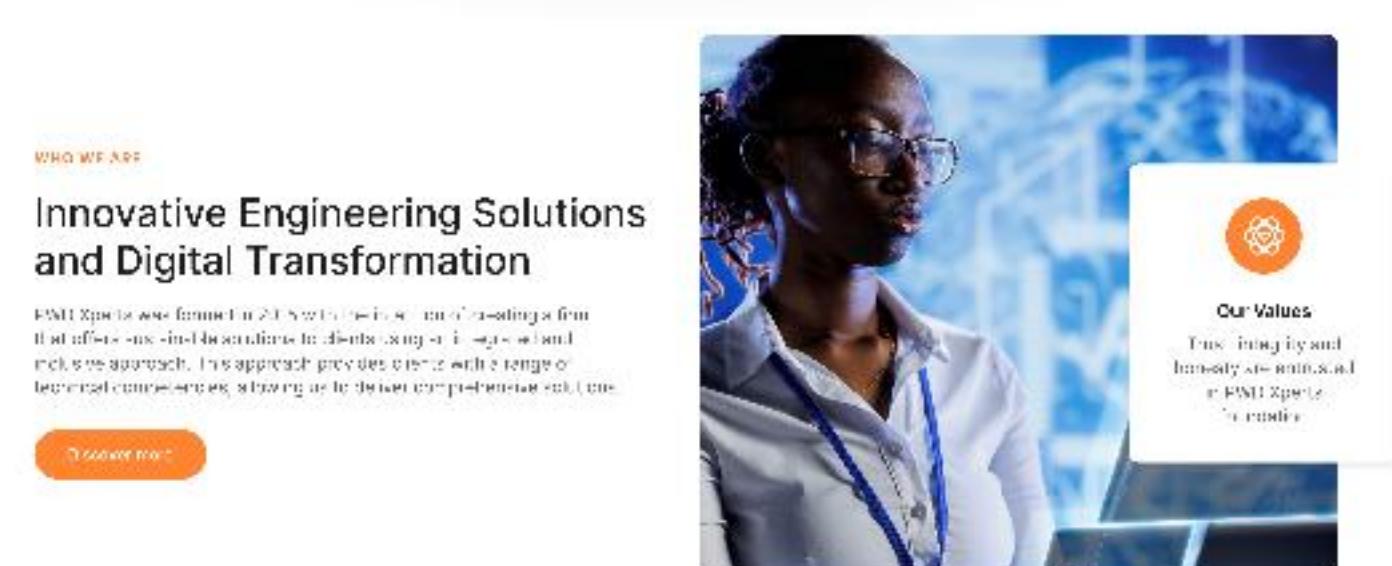


**WELCOME TO PWD XPERTS**

## Diversified Engineering

innovative engineering, consulting and logistics solutions

[Discover More](#)

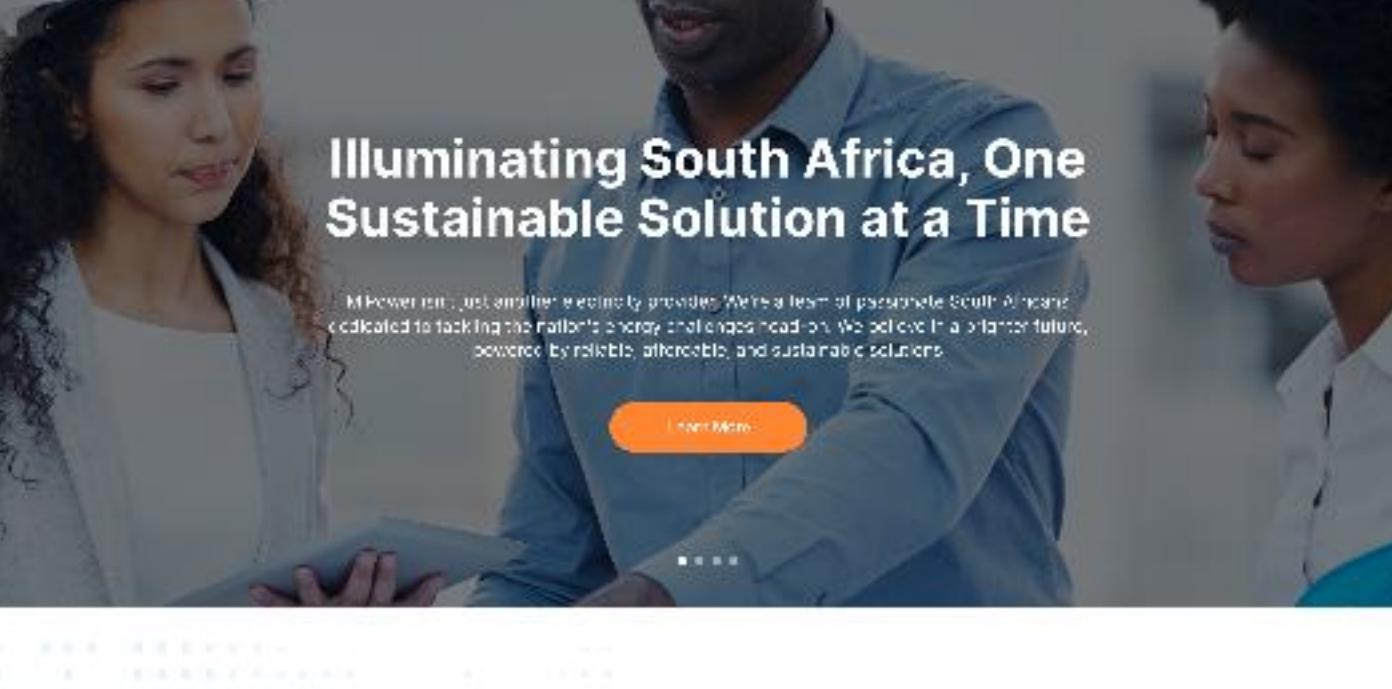


**MiWATER**  
Providing sustainable water, sanitation, and hygiene solutions through our core and strategic units.

**MiPOWER**  
MiPower is a team of passionate experts dedicated to tackling the market's energy challenges head-on.

**MiDIGITAL**  
Our team will leverage technology to improve operational efficiency, reduce costs, and enable sustainability.

[Discover More](#)

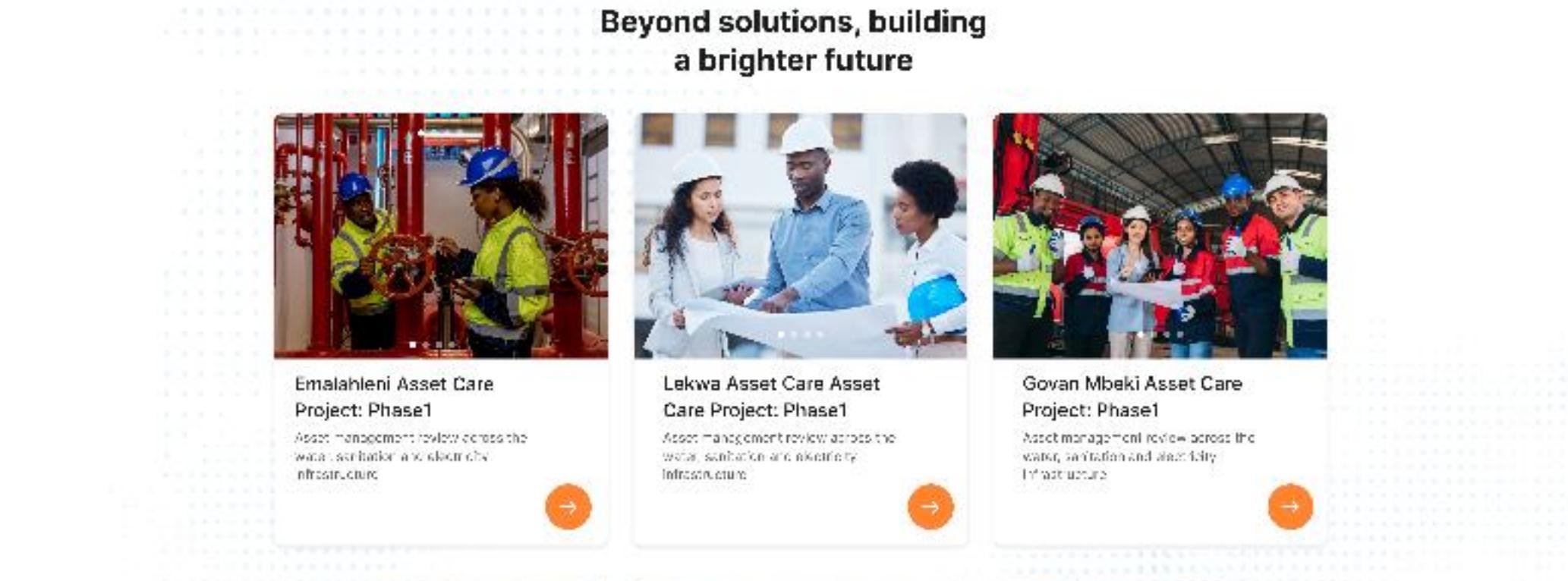


**WHO WE ARE**

### Innovative Engineering Solutions and Digital Transformation

PWD Xperts was founded in 2015 with a mission to bring together a team of multi-disciplinary professionals in engineering, consulting, and logistics. This approach provides clients with a range of business needs services, allowing us to deliver comprehensive solutions.

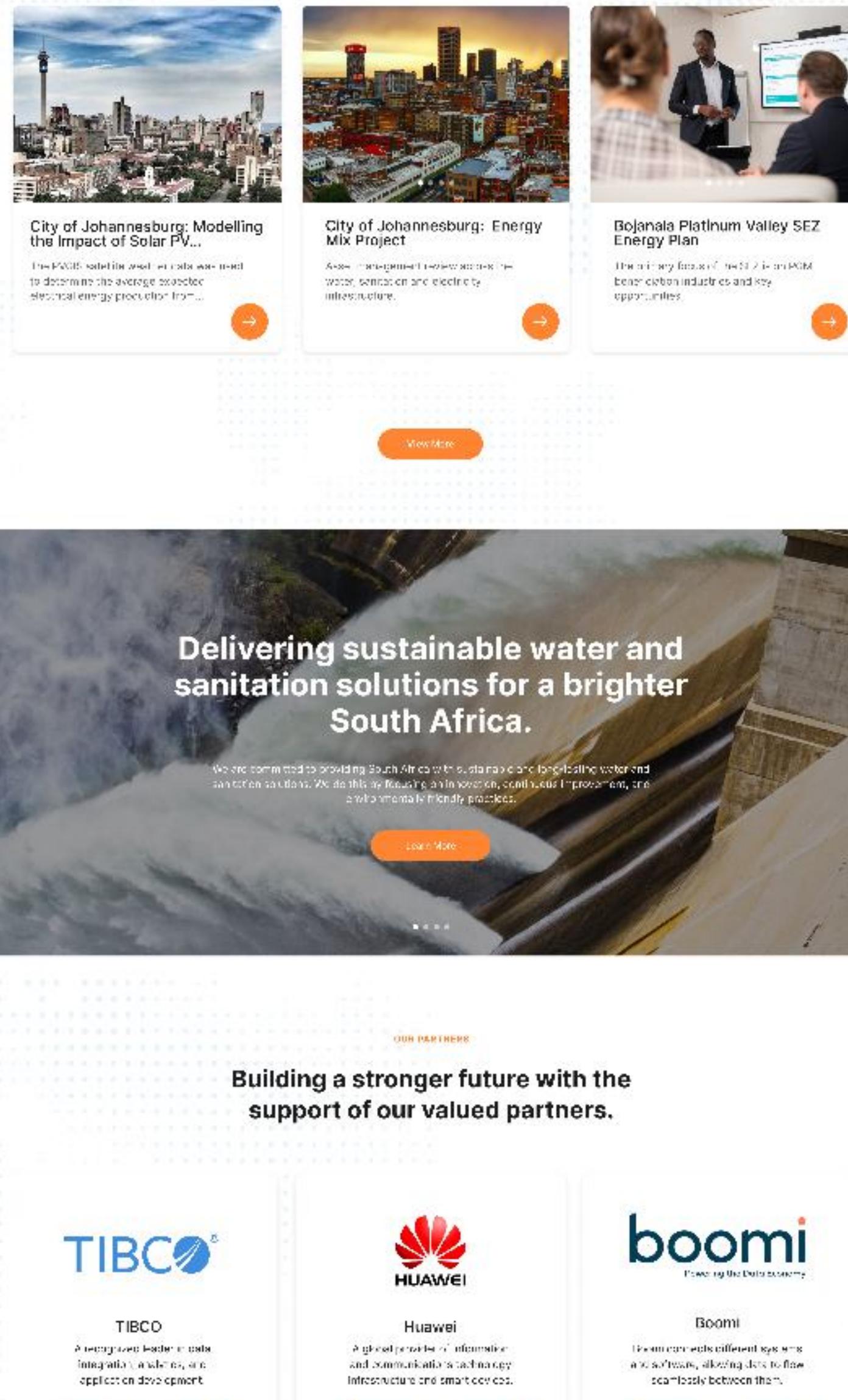
[Discover More](#)



**Illuminating South Africa, One Sustainable Solution at a Time**

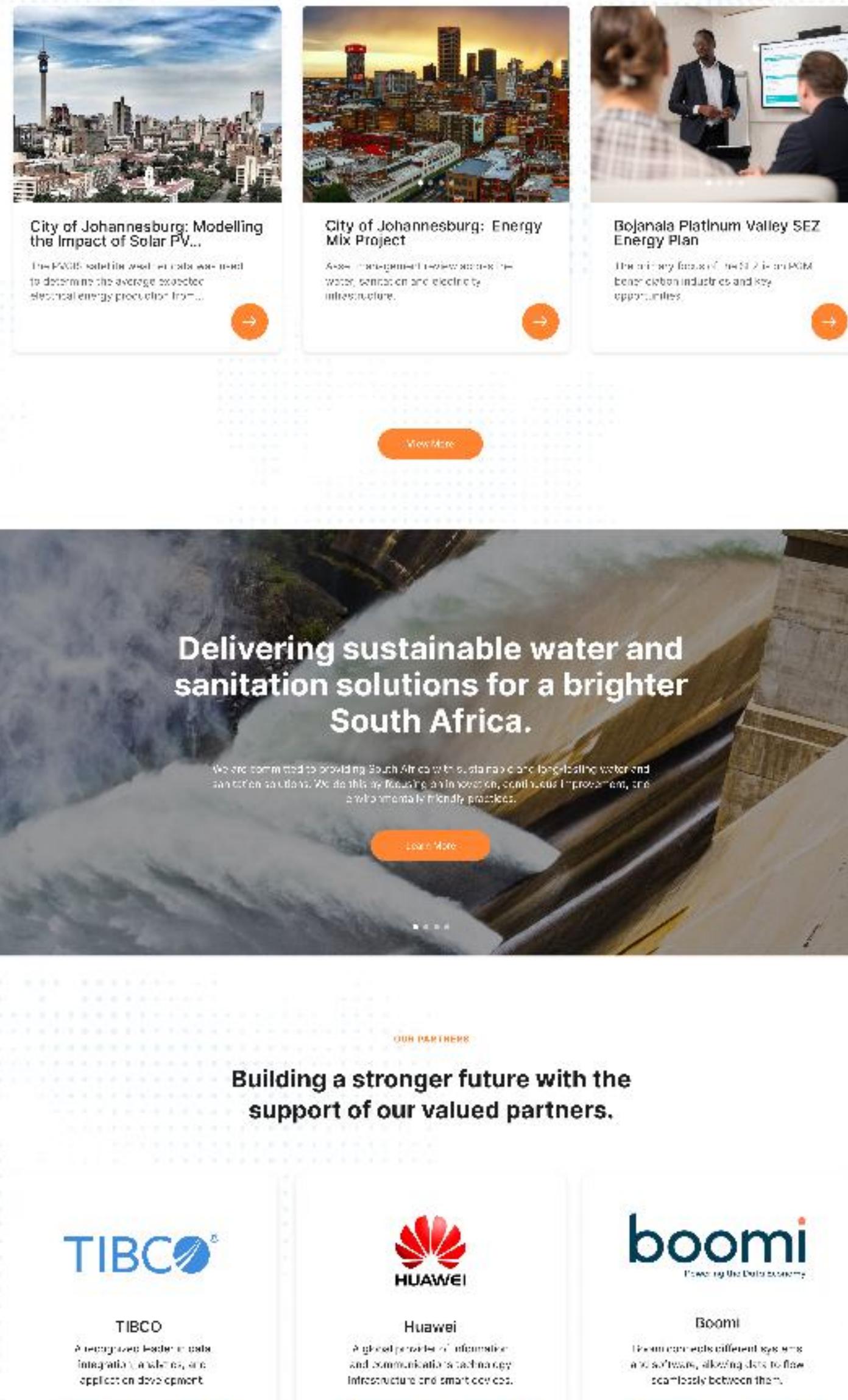
MiPower is just another example of what we do. We're a team of passionate South African engineers dedicated to tackling the nation's energy challenges head-on. We believe in a better future, powered by reliable, affordable, and sustainable solutions.

[Learn More](#)



**OUR PROJECTS**

### Beyond solutions, building a brighter future



**Emalahleni Asset Care Project: Phase1**  
Asset management review across the water, sanitation and electricity infrastructure.

**Lekwa Asset Care Asset Care Project: Phase1**  
Asset management review across the water, sanitation and electricity infrastructure.

**Govan Mbeki Asset Care Project: Phase1**  
Asset management review across the water, sanitation and electricity infrastructure.

**City of Johannesburg: Modelling the Impact of Solar PV...**  
The PWD Xperts solar panel data was used to determine the average expected electrical energy production from...

**City of Johannesburg: Energy Mix Project**  
Asset management review across the water, sanitation and electricity infrastructure.

**Bojanala Platinum Valley SEZ Energy Plan**  
The city aims to attract FDI from local and international industries and key opportunities.

[View More](#)



**Delivering sustainable water and sanitation solutions for a brighter South Africa.**

We are committed to providing South Africa with sustainable long-term water and sanitation solutions. We do this by building a resilient, sustainable, and efficient water and sanitation infrastructure.

[Learn More](#)

#### OUR PARTNERS

Building a stronger future with the support of our valued partners.



**TIBCO**  
A recognized leader in data integration, analytics, and application development.

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**Huawei**  
A global provider of information and communication technology infrastructure and smart devices.

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**boomi**  
Powering the Data Economy

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**Rosslyn Electronic Manufacturers**

Rosslyn Group aims to provide electronic distribution, asset protection, and access control.

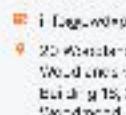
[Learn More](#)



**tabuka**

MX

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**Mahou Tax and Accounting**

The business has integrated taxation and strategic planning and sound financial management.

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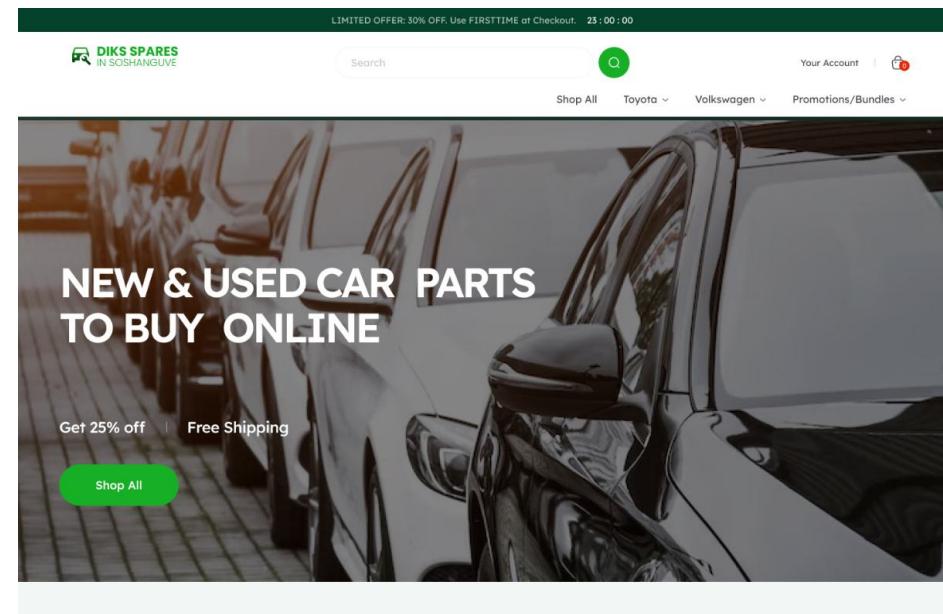
# UX Design for an E-commerce Website Selling Car Parts and Liquids

## OVERVIEW

This case study focuses on the UX/UI design process for an e-commerce website specializing in the sale of car parts and automotive liquids. The goal is to create a seamless and intuitive online shopping experience that caters to both casual car owners and professional mechanics looking for high-quality products.

## CHALLENGES

Designing an e-commerce platform that effectively showcases a wide range of car parts and automotive liquids while ensuring ease of navigation, product discoverability, and a streamlined checkout process. The website should prioritize usability, visual appeal, and trustworthiness to enhance user engagement and increase conversion rates.



## Fluids, Lubricants & Anti-Freeze

Best Sellers

Bundles & Promotions

On Sale

# UX Design for an E-commerce Website Selling Car Parts and Liquids

LIMITED OFFER: 30% OFF. Use FIRSTTIME at Checkout. 23:00 : 00

DIKS SPARES IN SOSHANGUVE

Search

Your Account

Shop All Toyota Volkswagen Promotions/Bundles

## NEW & USED CAR PARTS TO BUY ONLINE

Get 25% off | Free Shipping

Shop All

**Reliable Shipping**

Shipping right to your doorstep! You can also opt in for shipping insurance. For orders over R300, shipping is free!

**You're Safe With Us**

Our secure payment system accepts the most common forms of payments. The payments we accept are debit, all major credit cards, and cryptocurrency.

**Best Quality & Pricing**

We take pride in the quality of our products and service. Our prices are set to ensure you receive your products at a reasonable price and safely.

## Fluids, Lubricants & Anti-Freeze

Best Sellers Bundles & Promotions On Sale

FLOWER Toyota Super Long Life Coolant ★ 4.6/5 | 135 Reviews R80.00 / 1L Add to Cart

CONCENTRATES Midas Brake Fluid DOT4 ★ 4.6/5 | 135 Reviews R200.00 R100.00 Add to Cart

FLOWER Rislone Power Steering Repair ★ 4.6/5 | 135 Reviews R200.00 R120.00 Add to Cart

FLOWER Castrol DOT4 Brake Fluid 500ml ★ 4.6/5 | 135 Reviews R200.00 R120.00 Add to Cart

## Choose

Filter by Interest Fluids Cleaning Electrical Components Rims Shop All

FLOWER Toyota Super Long Life Coolant ★ 4.6/5 | 135 Reviews R80.00 / 1L Add to Cart

CONCENTRATES Midas Brake Fluid DOT4 ★ 4.6/5 | 135 Reviews R200.00 R100.00 Add to Cart

FLOWER Rislone Power Steering Repair ★ 4.6/5 | 135 Reviews R200.00 R120.00 Add to Cart

FLOWER Castrol DOT4 Brake Fluid 500ml ★ 4.6/5 | 135 Reviews R200.00 R120.00 Add to Cart

## UNLOCK 20% OFF YOUR FIRST ORDER

Reveal coupon code by entering your email

Email Address

Reveal coupon

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Online spares that meets the customers needs in every single aspect. We strive to provide the top quality products, service and care at the lowest prices you'll ever find.

### QUICK LINK

Track Your Order  
Shop All  
Cleaning  
Electrical Components  
Rims  
Refunds

Promotions / Bundles  
Support  
Reward  
Blog  
Shipping Faq

### CONTACT US

info@diksspares.co.za

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# HIRE ME

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Email:[bmmasuku@gmail.com](mailto:bmmasuku@gmail.com)

Website:<https://github.com/Bros-flame>

