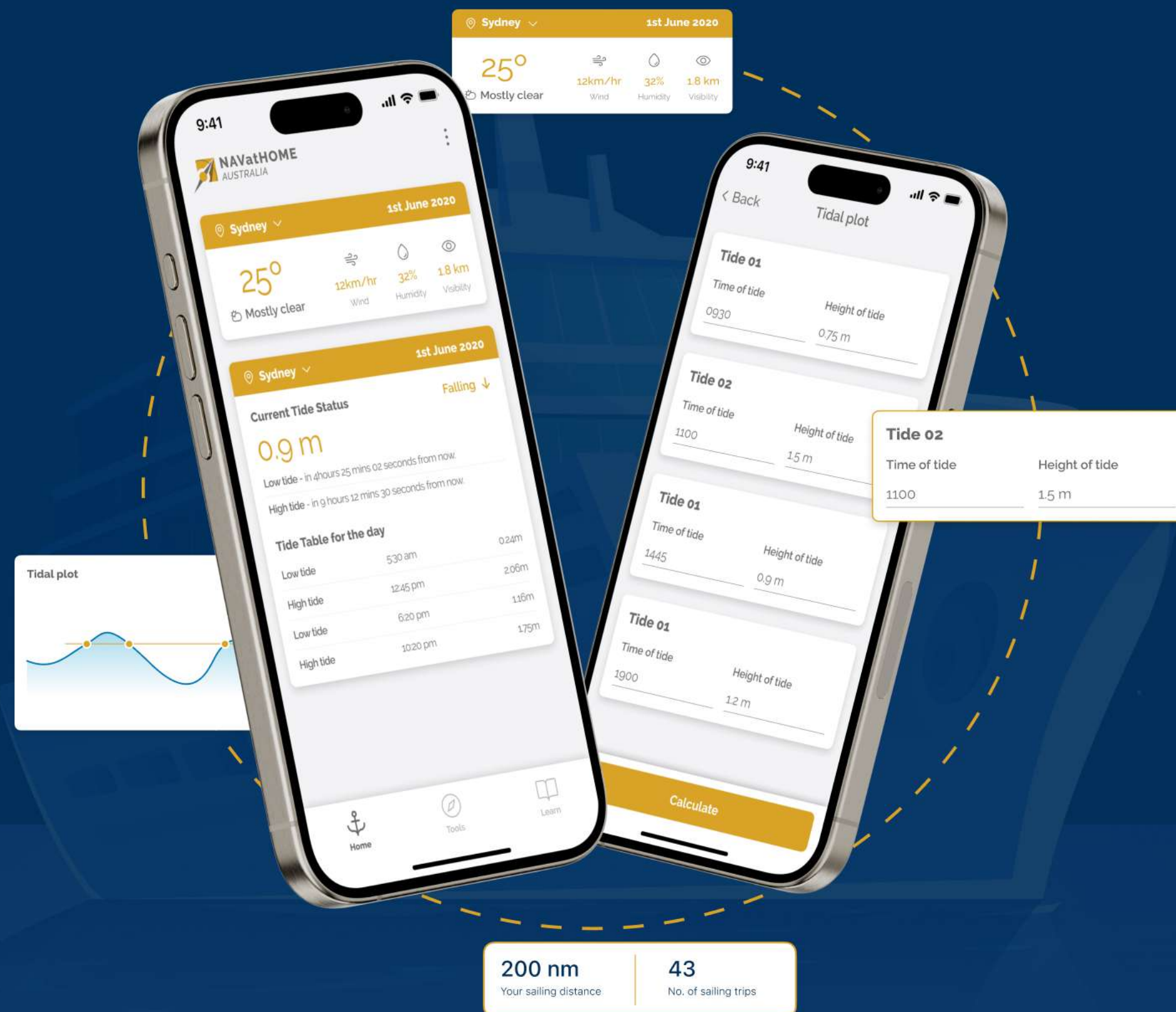


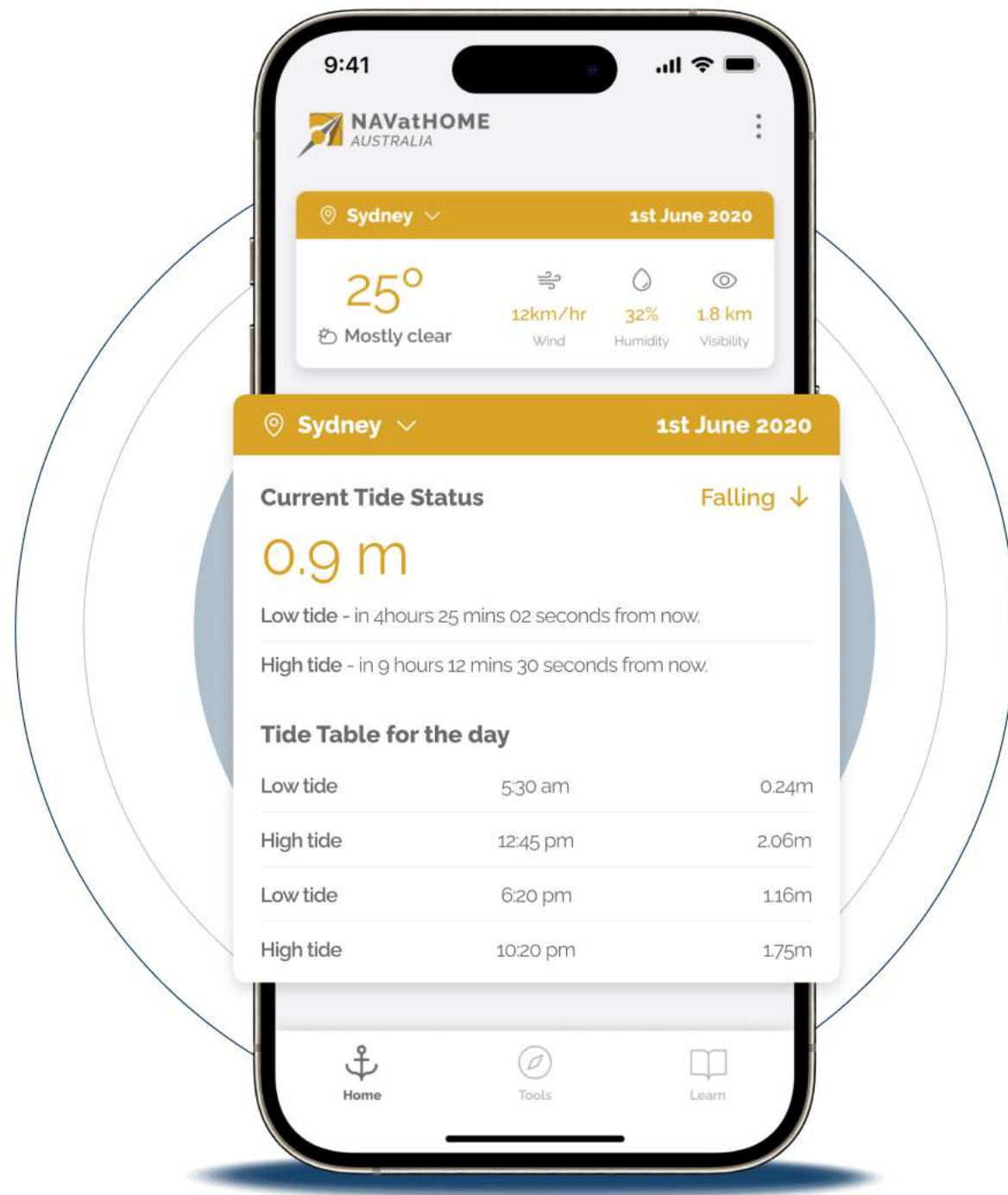


NAVatHOME AUSTRALIA

Sail smarter, not harder: This app empowers sailors with essential tools, live tide & weather data, trip logging, and in-depth guides on regulations & techniques.



Designed by  JHAVTECH
STUDIOS



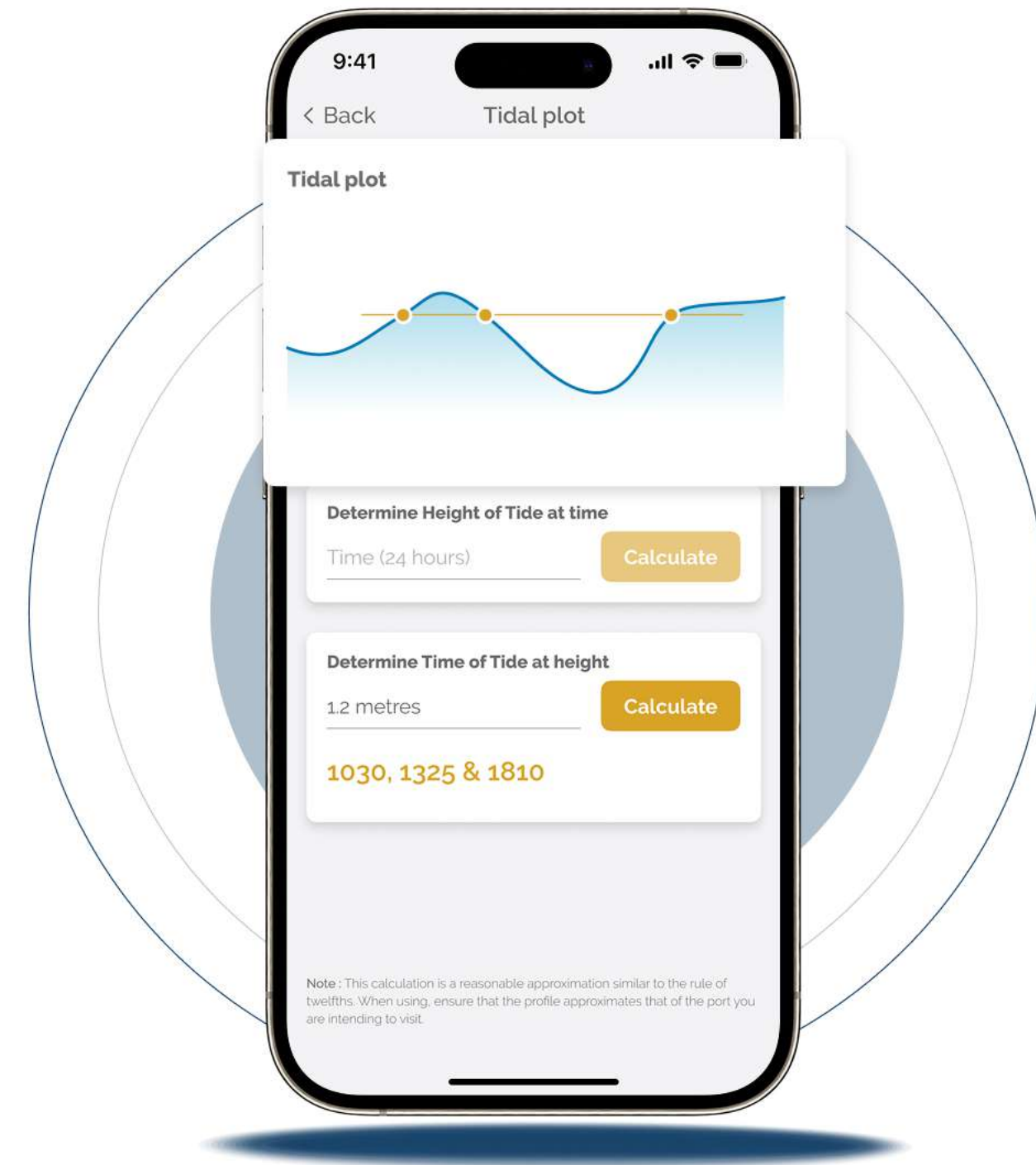
The Mission Behind This App

NAVatHOME - a cutting-edge mobile application meticulously crafted to empower sailors with indispensable tools and information, ensuring a secure and delightful navigation experience. Access essential information like weather and tides at your fingertips, track your progress seamlessly, and master sailing basics with built-in tutorials. Free and easy to use, NAVatHOME equips you with stress-free adventures on the water.

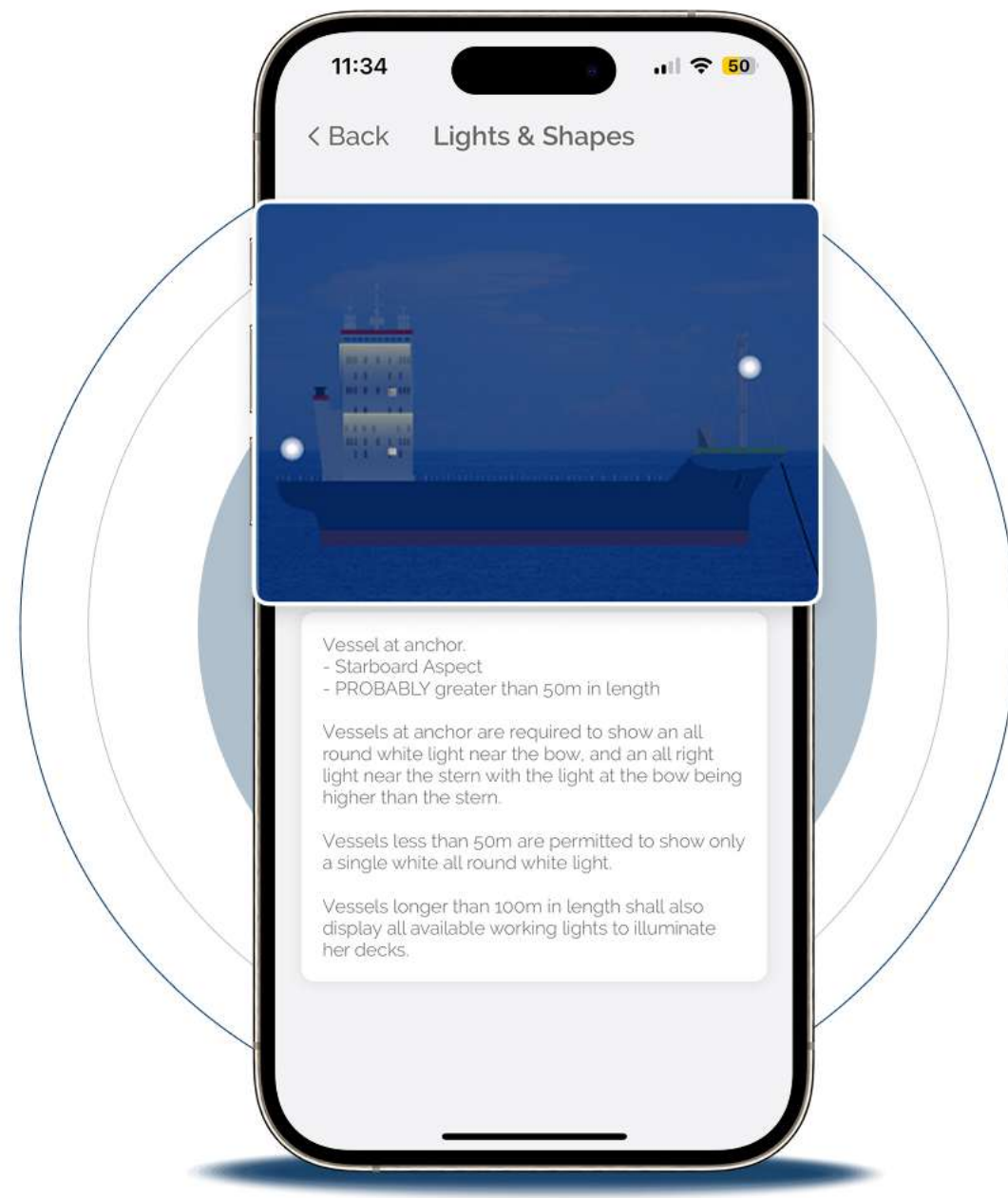
Problem Statement

Accessing up-to-date information on tidal and weather conditions, regulations, and techniques is essential for sailors, yacht masters, and navigators to ensure safe and enjoyable navigation. However, finding a user-friendly and reliable platform that offers all these features can be challenging.

NAVatHOME aimed to introduce a mobile app equipped with features designed specifically for sailors, offering an integrated navigation experience that was both safer and more user-friendly.



Our Game-Changing Solution

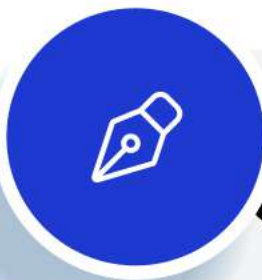


Drawing on their extensive experience with third-party APIs, the development team used Xamarin to create a single codebase for a cross-platform mobile app (iPhone & Android). This streamlined approach not only saved time but also ensured a consistent user experience. To make navigation even smoother, the app includes helpful tutorial resources covering regulations and techniques.

Process Intervention

Gathering project
requirements
and planning

Planning



Design

Studying given UI
design for app

Development of
functionality and
quality assurance

Development



Deployment

Deployment and
Maintenance

Design Intervention

“Our designers, are like superheroes, always here to save the day (and your design needs)!”

At our company, we take pride in our design team's ability to not only execute provided designs but also provide valuable input for the development process. Even though the client had provided a basic app design, our team was deeply involved in the implementation process, offering suggestions to improve the app's functionality and overall user experience.

We believe that by working collaboratively with our clients, we can create designs that not only meet their needs but exceed their expectations.

Development Process

Develop a cross-platform mobile app for NAVatHOME. This required efficient code reuse while maintaining native performance and rich functionality across different platforms.

We chose Xamarin, a high-performance platform known for its extensive library support and ability to create code reusable across iOS, Android, and other platforms. Leveraging the expertise of a seasoned Xamarin developer with 6 years of cross-platform experience, we embarked on a streamlined development process.



Key Points to Highlight

Cross-platform development

Optimized development time and cost by using a single codebase for iOS and Android.

Performance

Ensured a native-like experience on both platforms despite code sharing.

Rich library support

Utilized Xamarin's extensive libraries to expedite development and add desired features efficiently.

Experienced developer

Assigned a developer with deep expertise in cross-platform development to ensure project success.

Efficient development

Completed the project within a month, demonstrating the effectiveness of the chosen approach.

Complex features

Successfully addressed intricate functionalities, showcasing the developer's skills and platform capabilities.

Technology Stack

Visual Studio
for Xamarin



C#
for Xamarin Development



Chart.js
for Chart



Open Weather
to display weather info



Key Feature Intervention

Integrated Real-Time Data

Seamlessly integrates with the Bureau of Meteorology, Australia API to display real-time tide status and detailed tide tables for any given day, empowering users with accurate and up-to-date information

Live Weather Monitoring

Leverages the openweathermap API service to provide current location weather information alongside tidal data, offering a comprehensive view of environmental conditions during their navigation

Interactive Tidal Charts

Incorporates the Chart.js library to calculate and present tidal plot data in visually appealing and easy-to-understand charts. This intuitive format enables users to quickly grasp tidal patterns and make informed decisions

Comprehensive Learning Resources

Features a library of video and audio tutorials covering navigation techniques and global regulations. These easily accessible resources educate users and enhance their navigational skills and confidence.

Don't Take Our Word for It

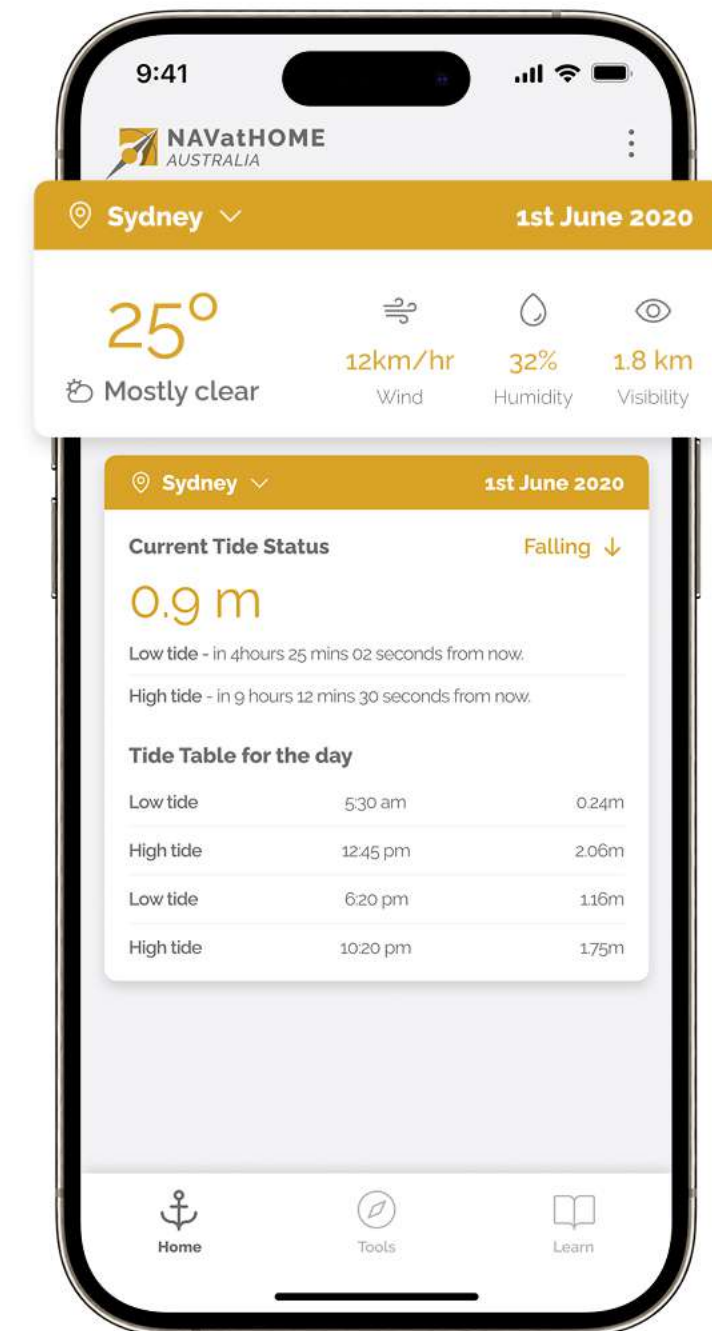
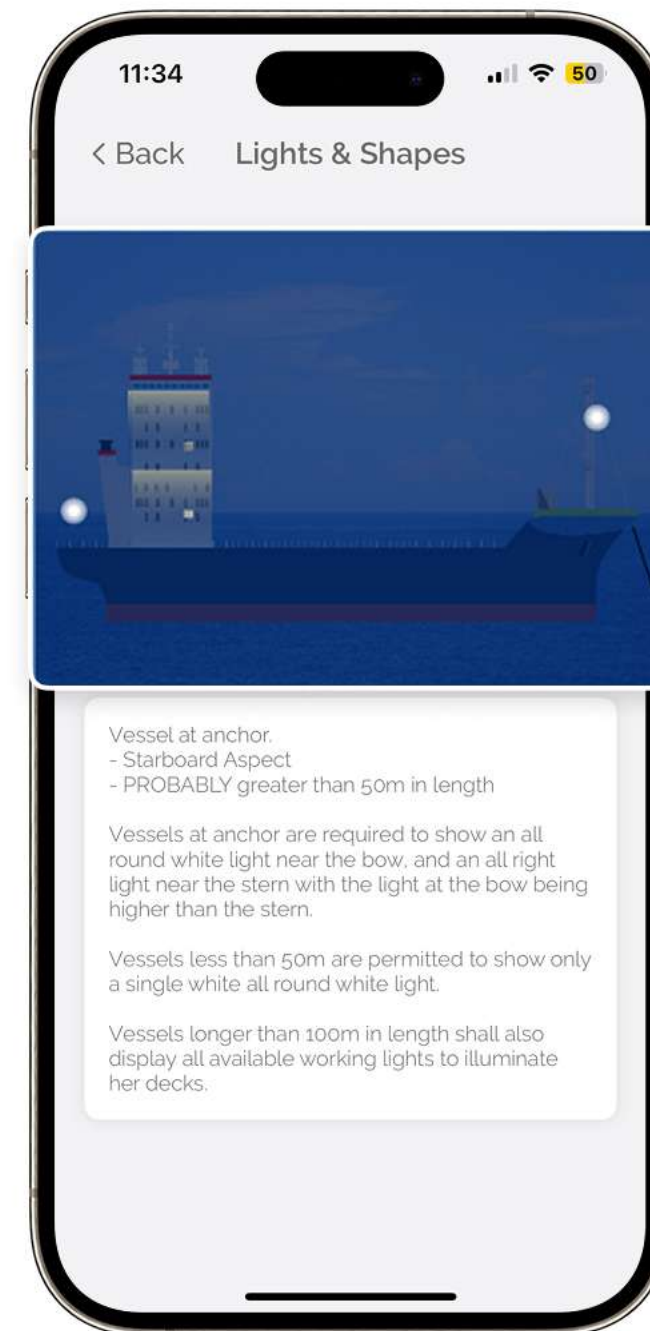
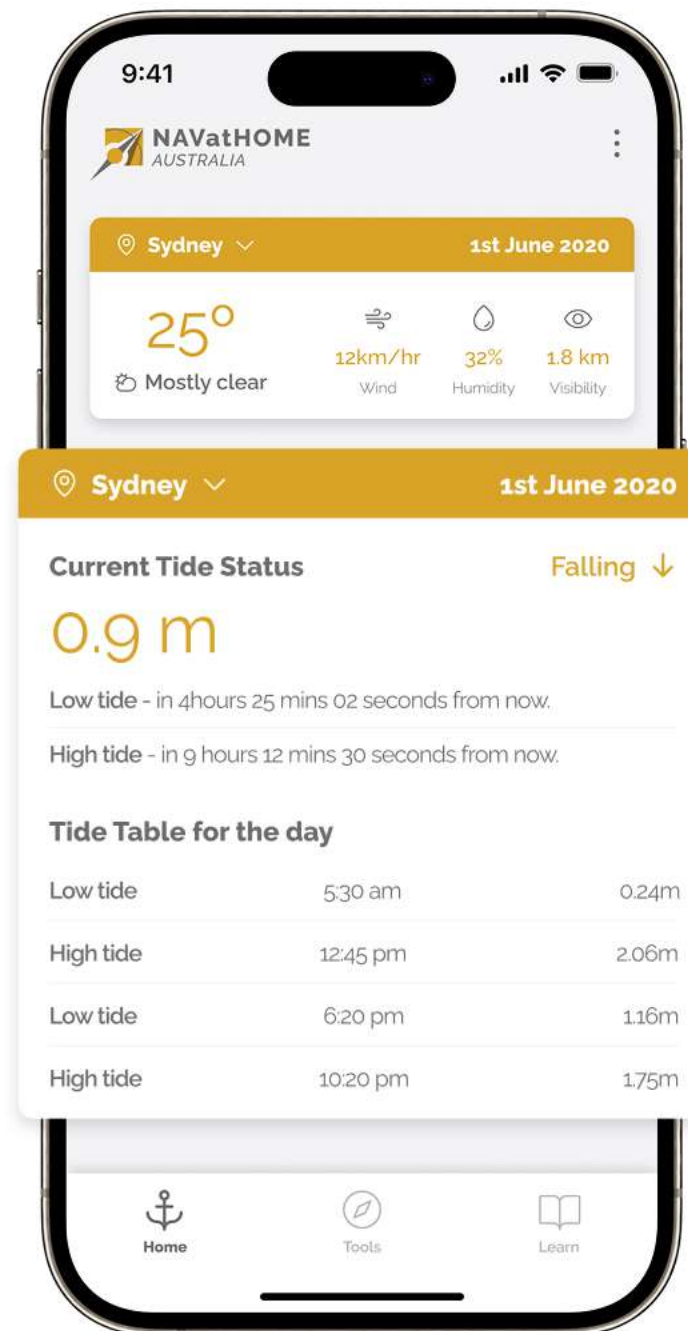
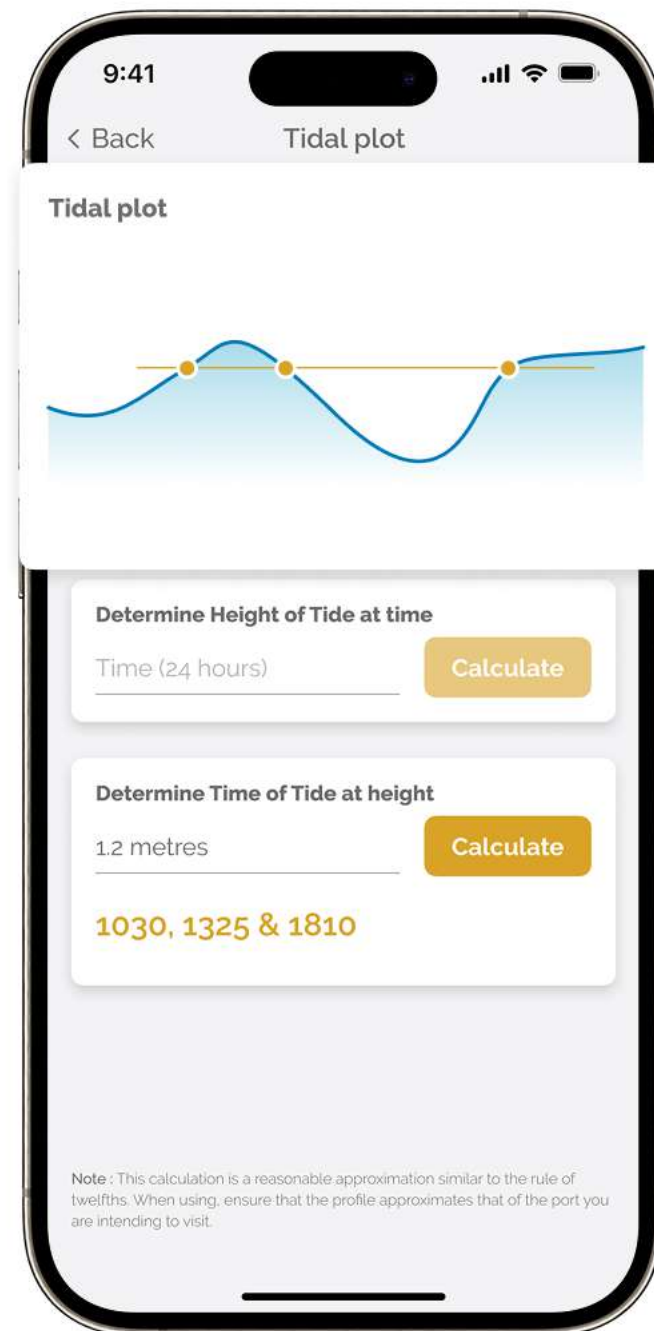
Jhavtech Studios exceeded our expectations with their exceptional development of our app, perfectly aligning with our vision to support diverse learning styles through mobile-friendly course materials. Their interactive project management and focus on efficient execution over extensive planning were particularly impressive. The final product has significantly enhanced our educational offerings, leaving us very satisfied and looking forward to future collaborations. Their delivery and approach were outstanding.

Alan Punch

Director, Navathome Australia



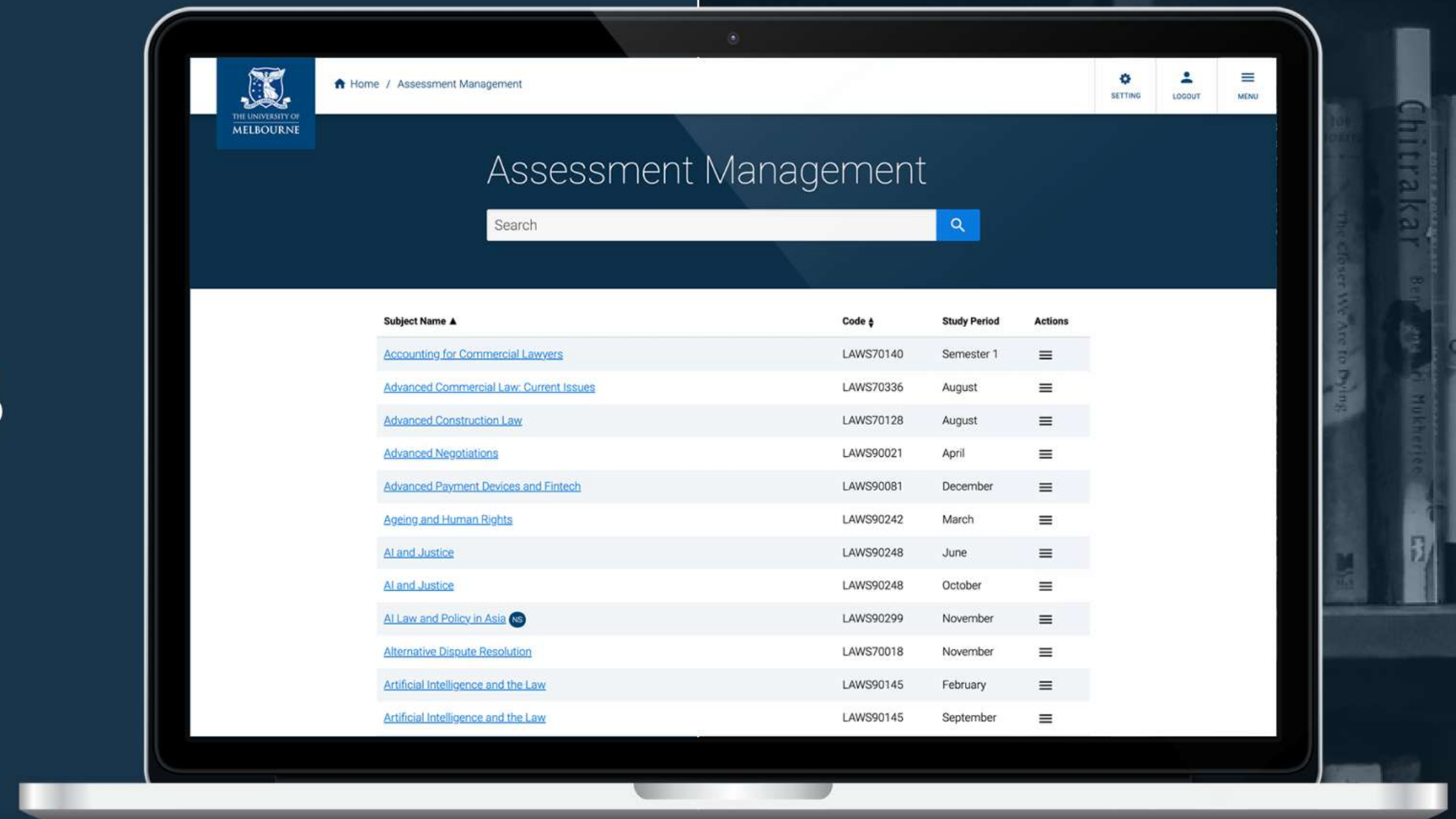
UI Screens





Case Study

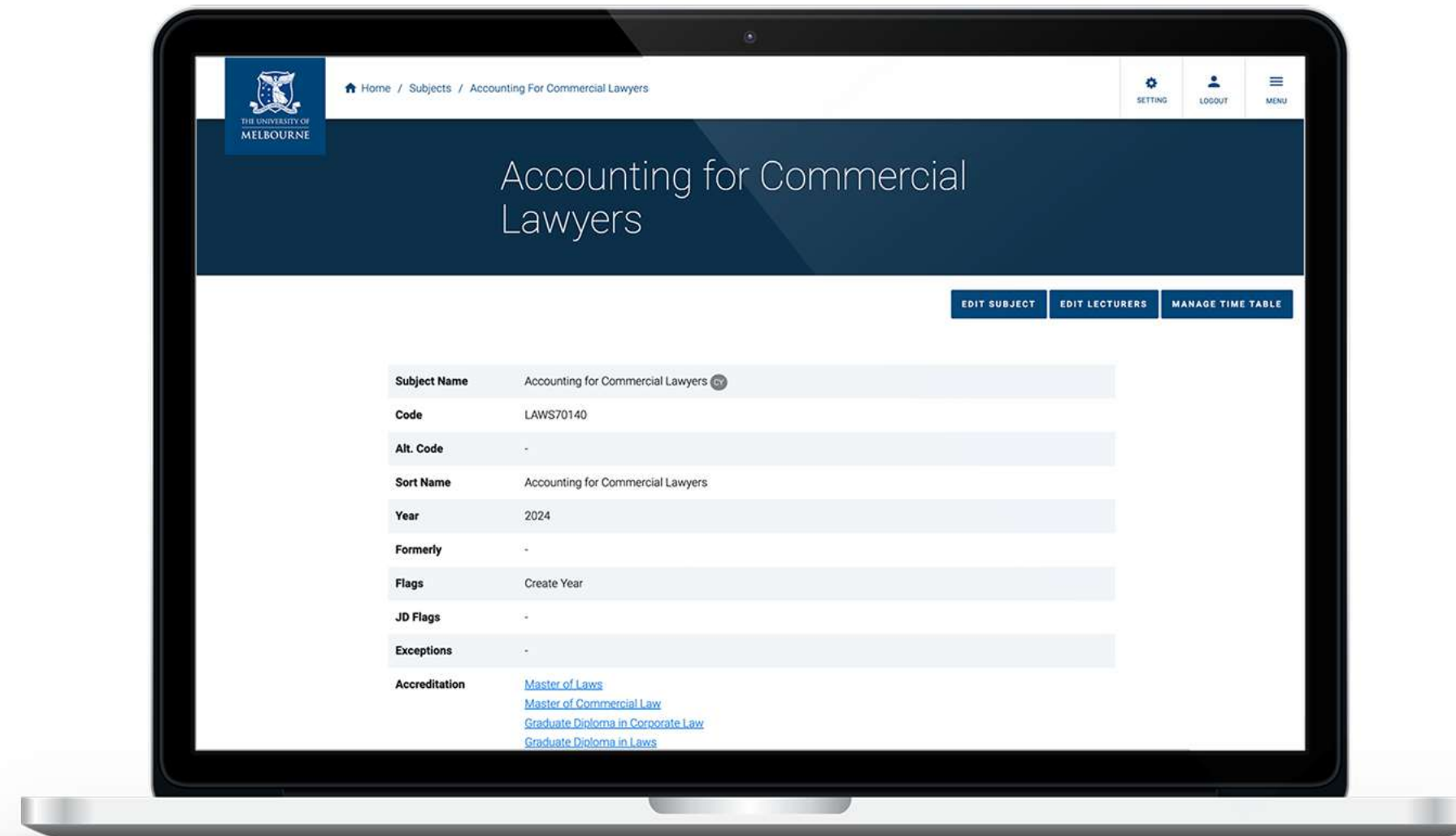
Modernising Systems for Academic Growth



Designed by  JHAVTECH
STUDIOS

Introduction

The University of Melbourne's law school needed to upgrade its outdated application for managing courses and semester schedules. To modernize their system, they sought a solution that would enhance performance, improve security, and provide scalability while maintaining ease of use for faculty and staff.



Project Requirements

The client's key requirements for the project were



System Modernization

Transition from an old legacy system to a modern technology stack while ensuring data integrity and seamless functionality.



Ongoing Support and Maintenance

Provide regular updates, security enhancements, and performance monitoring to ensure continuous and reliable service.

Our Approach

We delivered a comprehensive migration and modernization solution for the University of Melbourne law school. Our approach focused on both technological improvements and long-term system sustainability.

Technology Assessment and Migration

We conducted a detailed review of the existing system to map out the required functionality. With the old system serving as a reference, we built a new application using modern technology to improve performance and security.

Agile Development and Incremental Releases

To ensure a smooth transition, we used agile methodology, delivering incremental updates. This allowed for frequent feedback and refinement, minimizing disruption during the migration process.

Maintenance Process



Our maintenance plan focused on ensuring the new system's stability and efficiency

Regular Updates

We ensured continuous updates to prevent issues and keep the system running optimally.

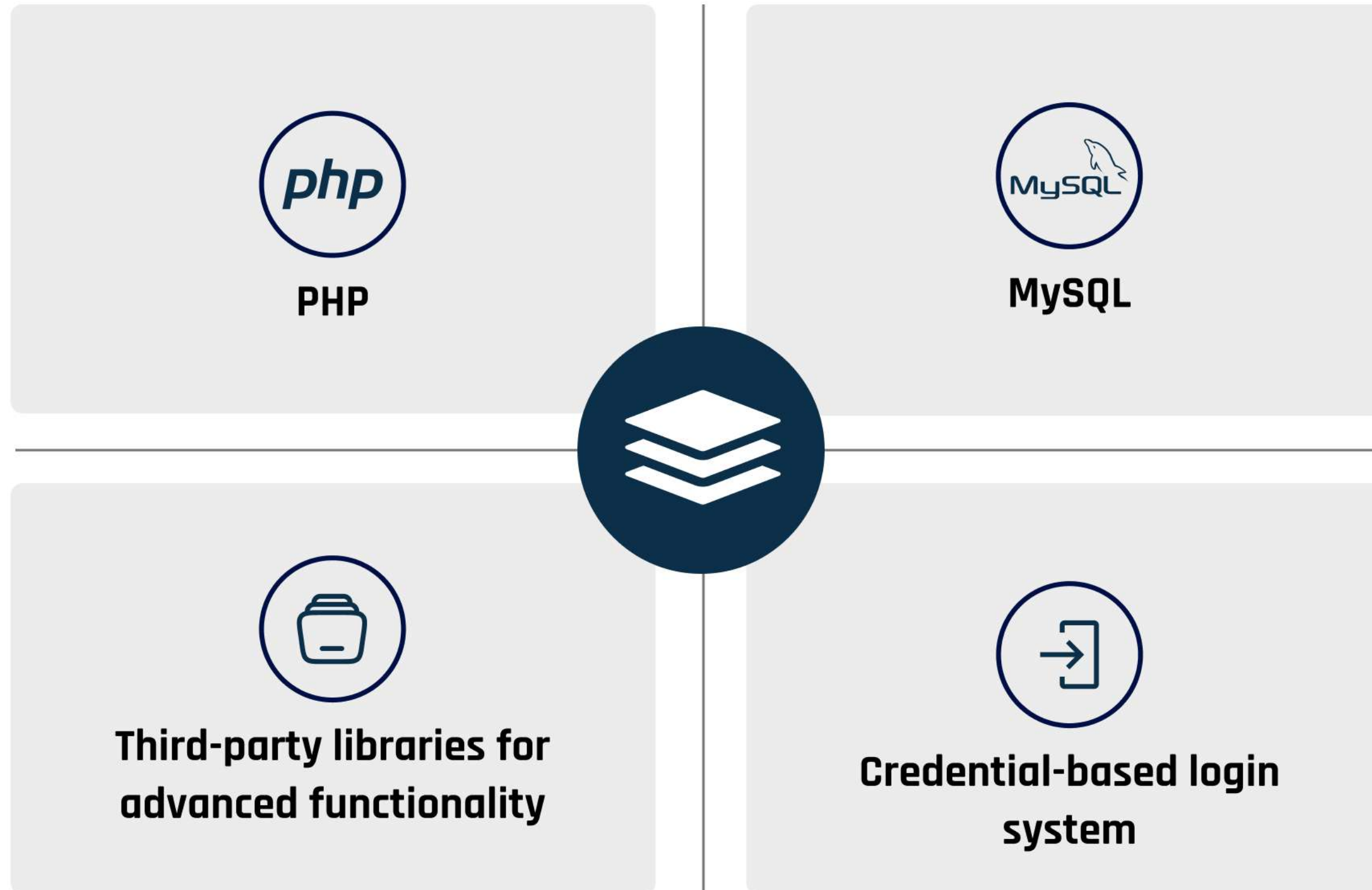
Security Enhancements

Robust security protocols, including identity management and access controls, were implemented to safeguard sensitive data.

Documentation and Training

We provided full documentation and ongoing support, enabling the law school to maintain and update the system independently.

Technology Stack



Key Features

Enhanced System Performance

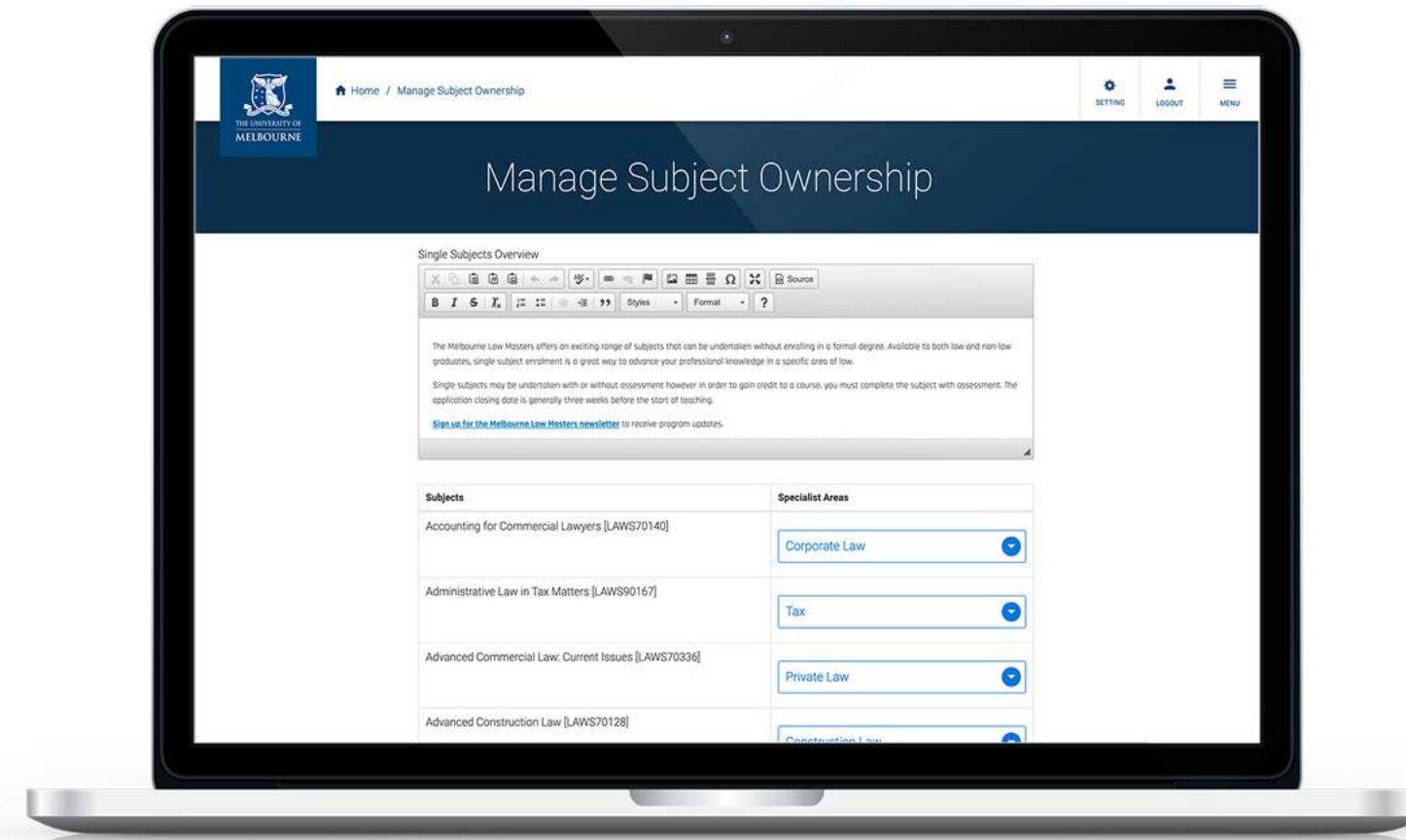
The transition to a modern framework improved system performance and reduced downtime.

Improved Security

Security measures were implemented to protect the application from breaches and ensure data integrity.

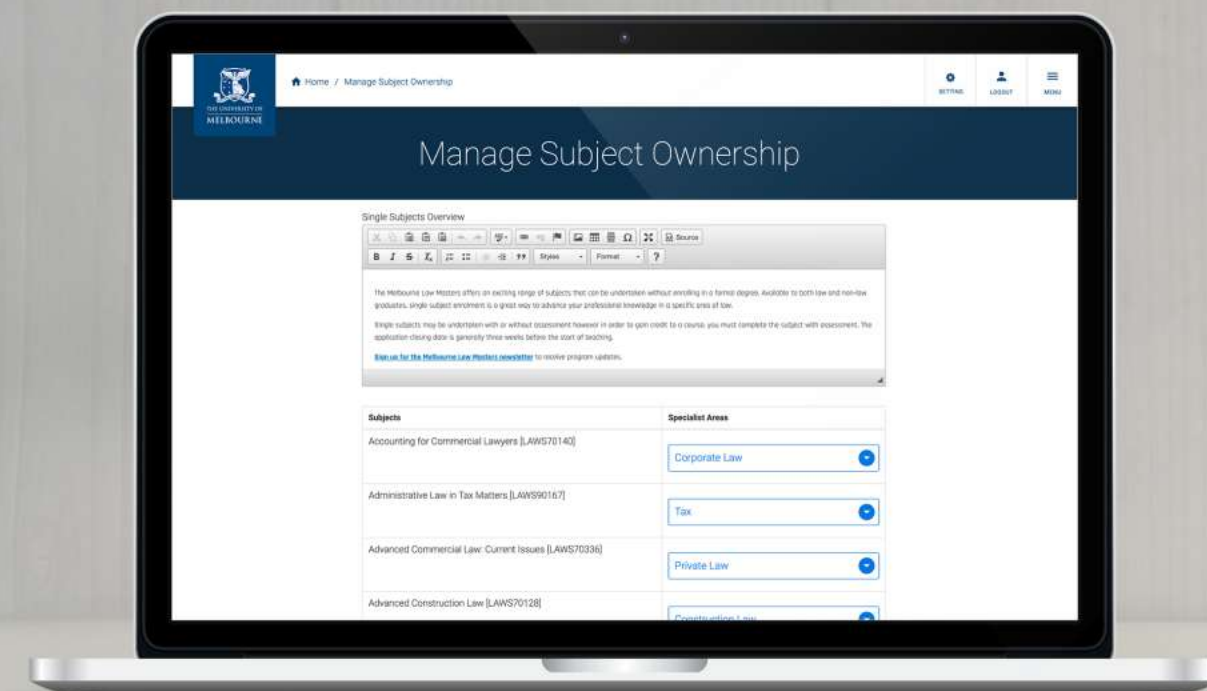
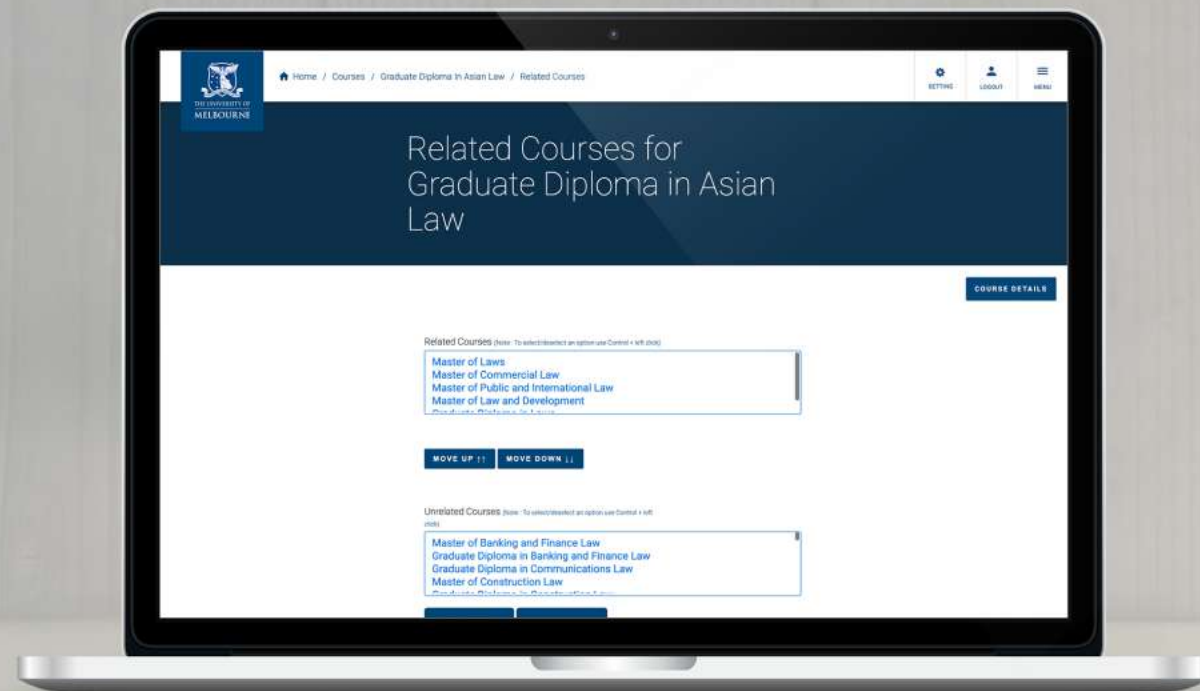
Self-Sustained System

The law school now operates a self-sustained system, managing their coursework and semester scheduling seamlessly.



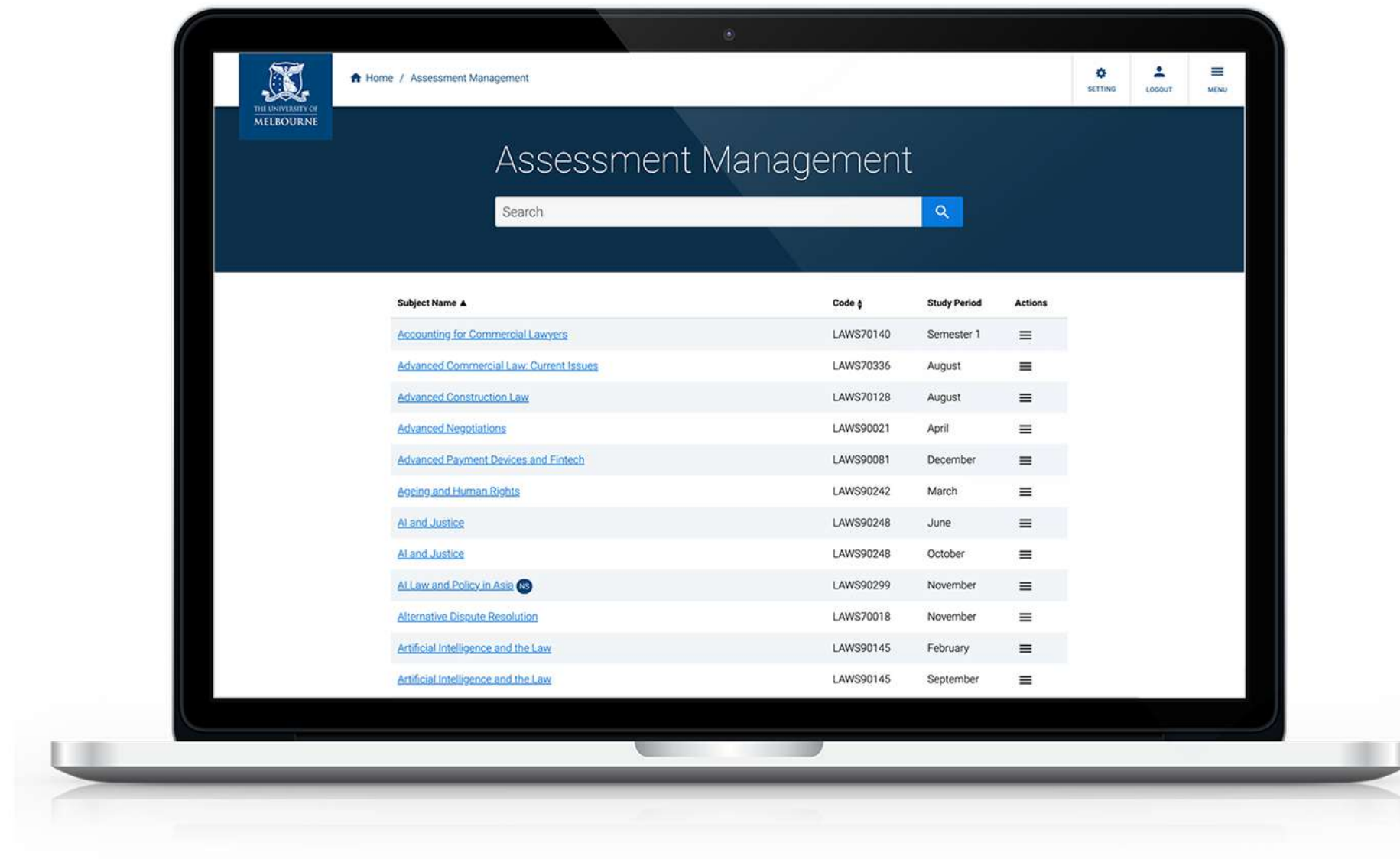
Results

The new system significantly enhanced the user experience, providing a stable, modern platform that meets the law school's evolving needs. The upgraded system delivered superior performance, stronger security, and reduced maintenance costs. The client expressed high satisfaction with the outcome, which improved their ability to manage coursework and scheduling efficiently.



Conclusion

By partnering with the University of Melbourne, we successfully delivered a modernized and self-sustained system that transformed their faculty experience. Our agile approach and ongoing support ensured a seamless migration, enabling the client to focus on academic excellence.



UI Screens

