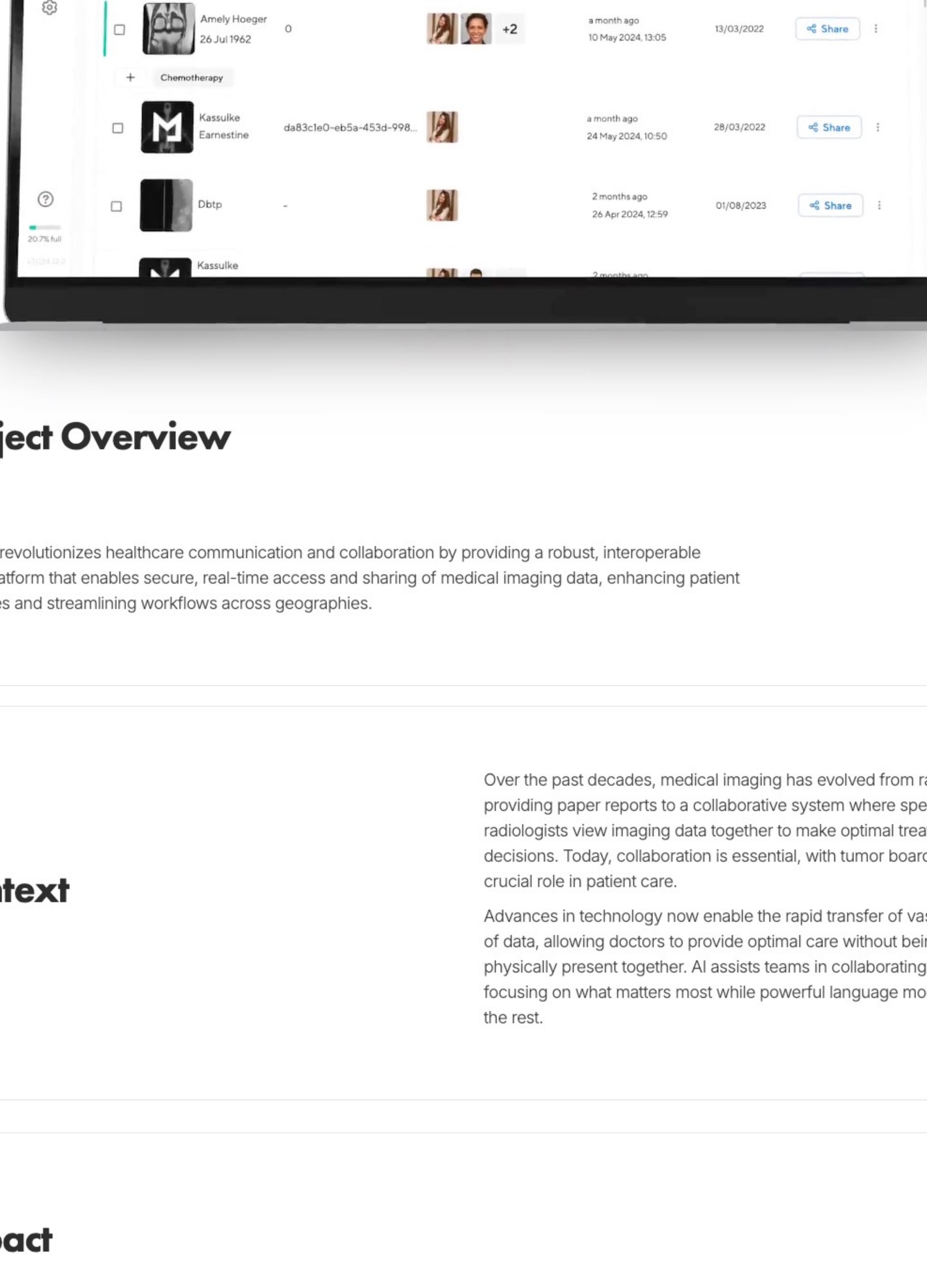


Medical Imaging Infrastructure for Healthcare Providers

Retrieve, view, store, and share medical imaging data.



Project Overview

Medicai revolutionizes healthcare communication and collaboration by providing a robust, interoperable digital platform that enables secure, real-time access and sharing of medical imaging data, enhancing patient outcomes and streamlining workflows across geographies.

Context

Over the past decades, medical imaging has evolved from radiologists providing paper reports to a collaborative system where specialists and radiologists view imaging data together to make optimal treatment decisions. Today, collaboration is essential, with tumor boards playing a crucial role in patient care.

Advances in technology now enable the rapid transfer of vast amounts of data, allowing doctors to provide optimal care without being physically present together. AI assists teams in collaborating efficiently, focusing on what matters most while powerful language models handle the rest.

Impact

2.2M+
CT & MRI imaging studies

70+
hospitals and independent practices

7000+
active doctors on the platform

1M+
studies transacted or processed per year

600k+
visualizations of DICOM studies in the last year

50M+
yearly API transactions

Challenges

When we started developing Medicai we had a few challenges that we needed to address:

- Interoperability of Medical Imaging Data:** We needed to integrate diverse imaging modalities into a cohesive, unified platform.
- Real-time Collaboration Across Geographies:** The platform needed to facilitate real-time consultations and decision-making on a global scale.
- Data Security and Privacy:** We needed to ensure robust data protection and compliance with regulatory standards.
- Scalability and Flexibility in Cloud Infrastructure:** The cloud infrastructure needed to be designed to be scalable and flexible, capable of handling varying loads efficiently.
- Streamlined Workflow Integration:** Medicai needed to integrate seamlessly into existing healthcare workflows, enhancing efficiency and productivity.

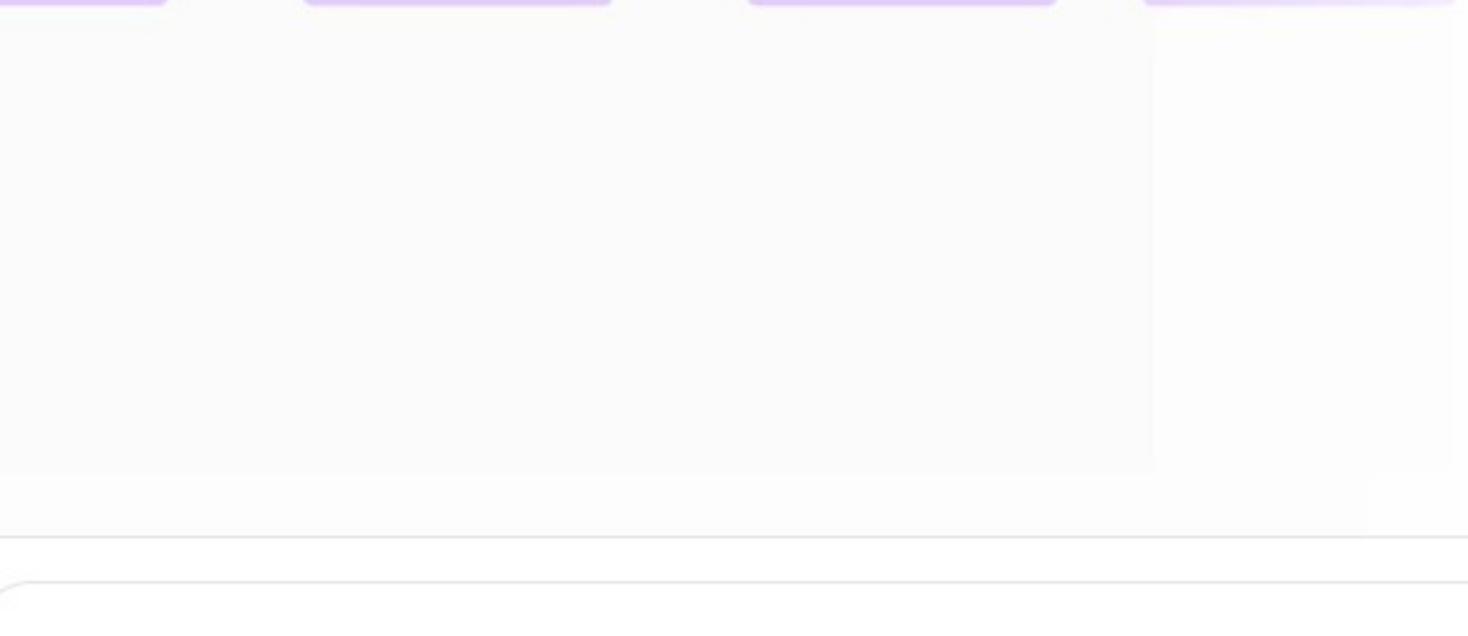
Connect & Retrieve

Medicai's multi-enterprise solution allows clients to connect all their locations and their imaging partner locations. The DICOM Node integrates with on-prem PACS and modalities, automatically retrieving imaging data. Additionally, the solution developed for Medical Imaging Uploader enables patients to send their previous imaging studies directly into their imaging infrastructure.

The future of healthcare depends on seamless communication and data exchange, and Medicai is leading this transformation with its interoperable technology. Medicai allows imaging centers to securely transmit data to doctors, improving patient outcomes. Its web-based **DICOM Viewer** supports all imaging types while efficiently storing data. Medicai's cloud infrastructure enhances integration between radiology centers and other healthcare providers like hospitals and clinics. Medical teams can access data from any web browser, collaborate in real-time, and hold online meetings. Additionally, Medicai supports digital health developers by integrating cloud-based imaging infrastructure, boosting revenue and patient loyalty. Medicai revolutionizes healthcare communication, enabling efficient, exceptional care.

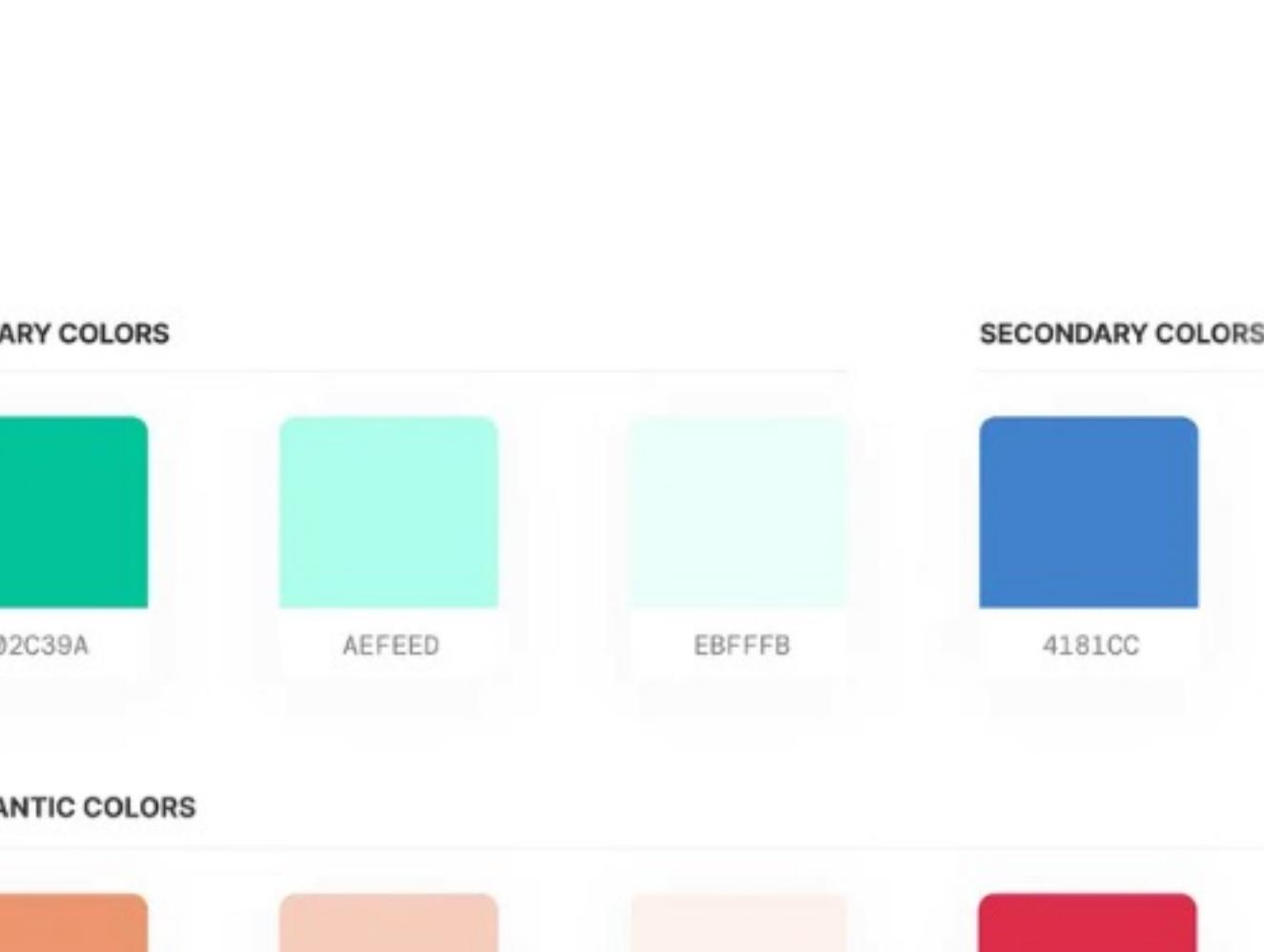
Store & Manage

Medicai offers an interoperable infrastructure for storing and managing imaging data, ensuring scalability, speed, and security. With granular Access Control Lists (ACLs), providers can manage data compliantly and securely, accommodating large volumes of imaging data with maximum safety.



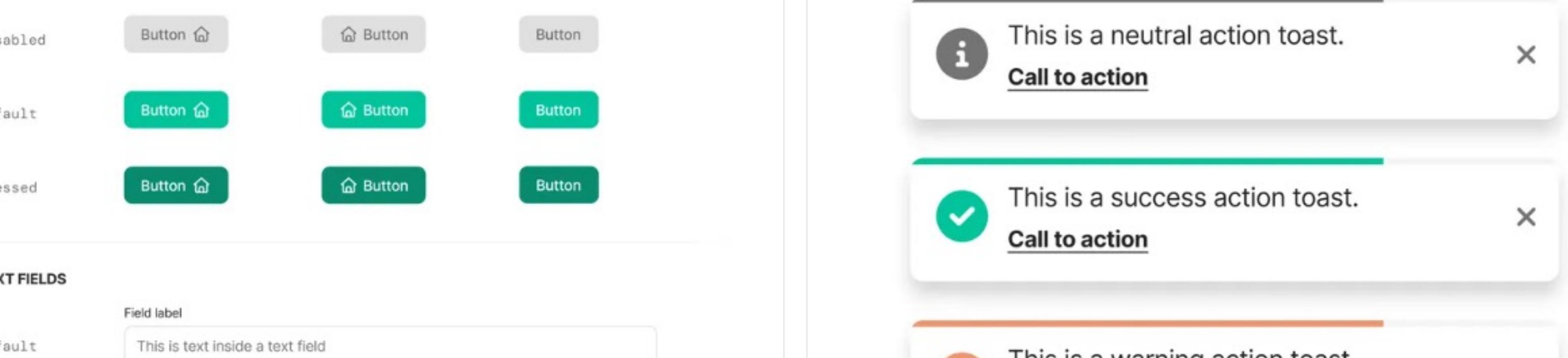
Access & Visualize

Medicai offers unparalleled flexibility for viewing and collaborating on imaging data. Providers can effortlessly utilize Medicai's apps, build custom applications using the DICOM viewer components, or seamlessly integrate with various systems such as EHRs, EMRs, and digital health apps.



User Flows

For each flow in Medicai, we develop user flow diagrams just like this one to help us understand what the optimal user journey looks like.



Design System

The **Medical Design System** provides a unified component base for both designers and developers to ensure consistency throughout all products.

PRIMARY COLORS

SECONDARY COLORS

SEMANTIC COLORS

NEUTRAL COLORS

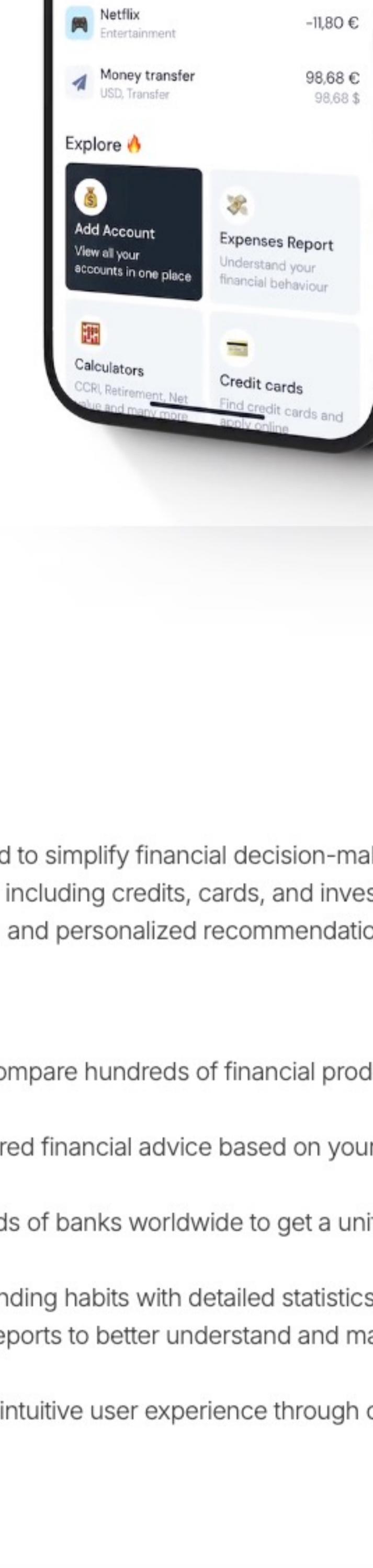
Aa

Inter

AI-Powered Medical Imaging Infrastructure & APIs for Healthcare Innovators.

Wealth manager for everyone

Educational and digital tools to help consumers make the best financial decisions



Project Overview

Bankata is a comprehensive fintech platform designed to simplify financial decision-making. It offers users the ability to compare hundreds of financial products, including credits, cards, and investment accounts, all in one place. The platform provides detailed information and personalized recommendations to help users select the best options for their needs.

Key Features:

- Extensive Product Comparison:** Access and compare hundreds of financial products to find the best fit for your needs.
- Personalized Recommendations:** Receive tailored financial advice based on your unique financial situation.
- Global Bank Connectivity:** Connect to thousands of banks worldwide to get a unified view of your finances.
- Detailed Spending Insights:** Visualize your spending habits with detailed statistics and reports.
- Customizable Reports:** Generate customized reports to better understand and manage your financial activities.
- User-Friendly Interface:** Enjoy a seamless and intuitive user experience through our robust design system.

Context

Wealth management services are typically reserved for the top 15% of the population. Bankata, a B2C fintech startup, democratizes access to these services with the help of technology. By providing knowledge and financial tools, Bankata empowers everyone to take control of their finances and make informed financial decisions, regardless of their level. Bankata serves as a self-service wealth manager for all.

Challenges

- Data Integration:** Aggregating financial data from thousands of banks worldwide.
- Security and Compliance:** Meeting stringent security standards and financial regulations.
- Scalability:** Handling large volumes of data and user interactions efficiently.
- User Experience:** Creating an intuitive and user-friendly interface.
- Real-Time Updates:** Providing real-time updates without requiring new downloads.
- Localization:** Adapting the app for different languages and cultures.
- Performance Optimization:** Maintaining high performance across various devices and operating systems.
- Data Privacy:** Protecting user data privacy, especially sensitive financial information.

Solution

We developed a robust platform for Bankata, simplifying financial decision-making. Our solution integrates and compares hundreds of financial products in one place, providing users with detailed information and personalized recommendations. We also built a user-friendly mobile app that connects to thousands of banks worldwide, offering a comprehensive view of finances, detailed spending insights, and customizable reports to help users manage their financial activities effectively.

Product Aggregation Platform:

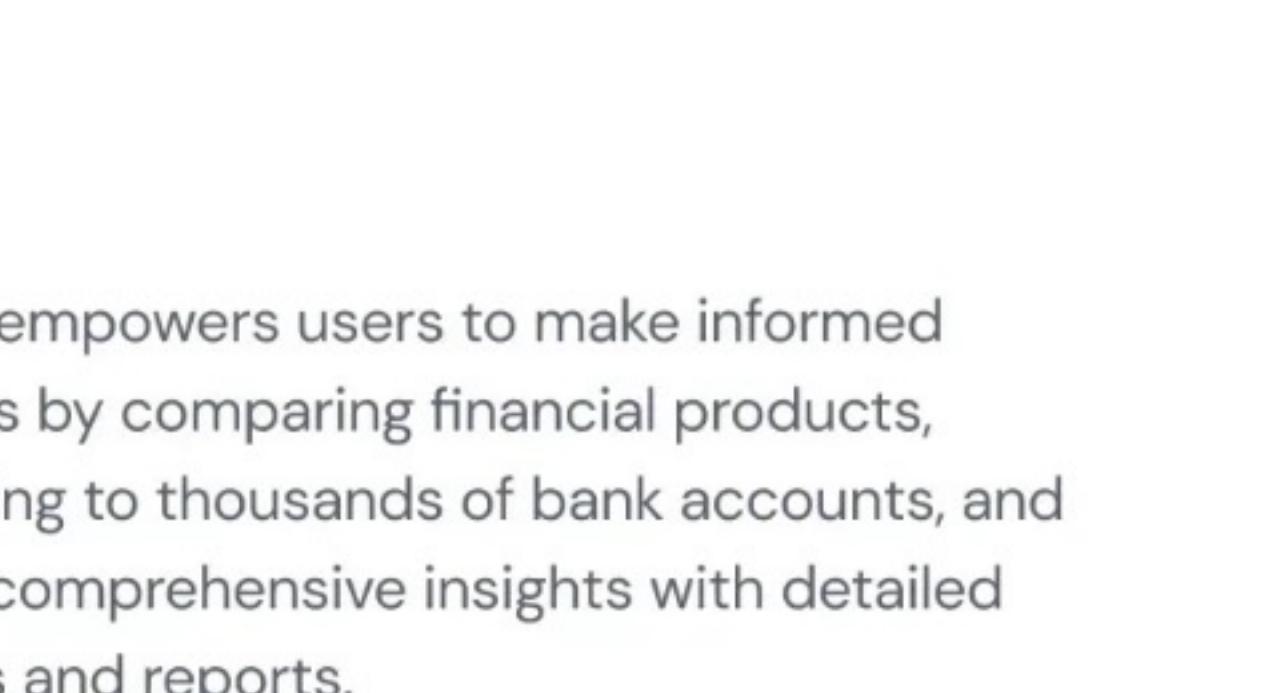
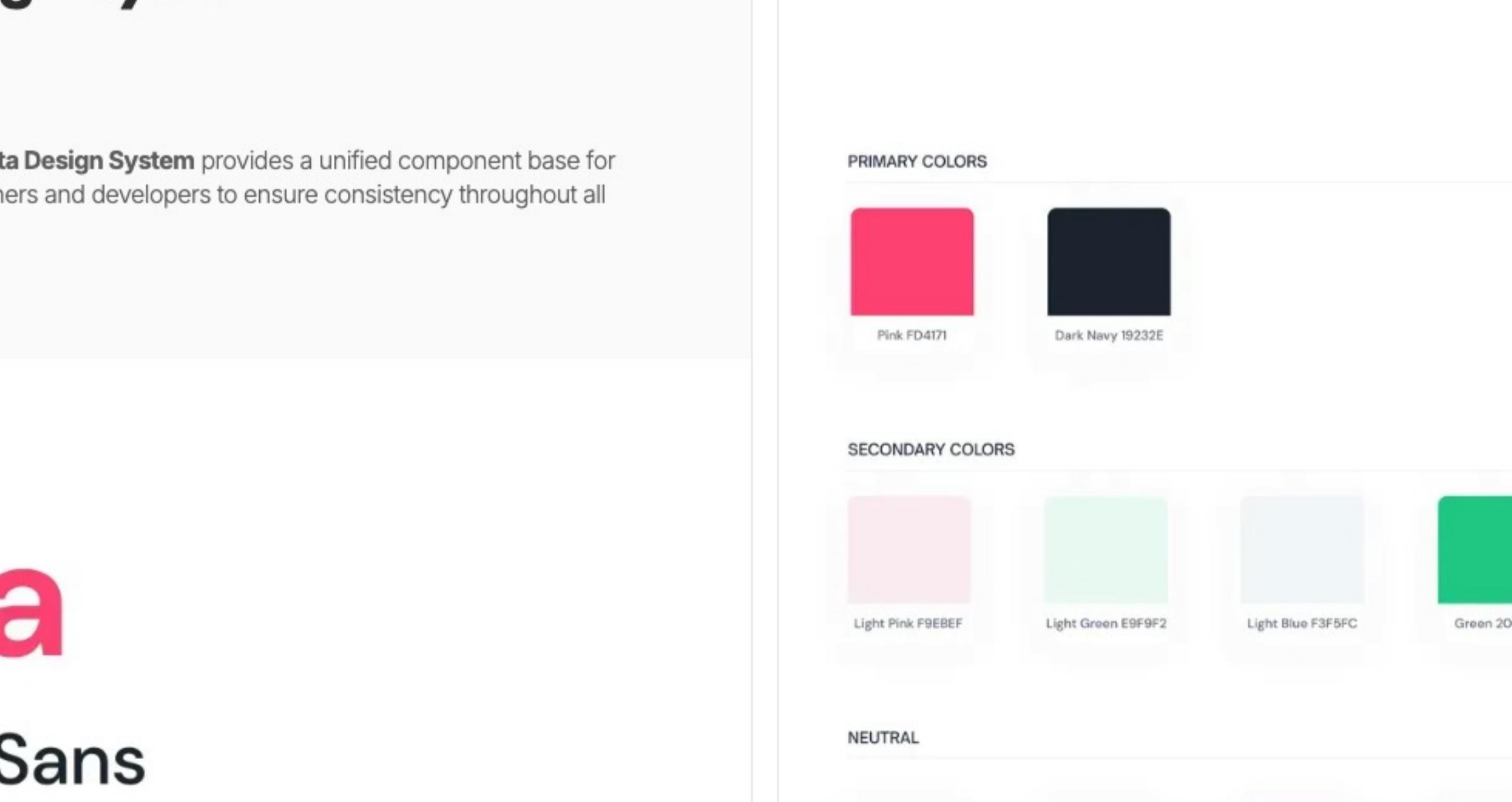
- Integration: Aggregated and compared financial products from the market, offering detailed information and personalized recommendations.
- User Interface: Created an intuitive web interface for easy navigation and product comparison.

Mobile App Development:

- Global Bank Connectivity: Enables users to connect to thousands of banks worldwide, giving them a unified view of their finances.
- Financial Insights: Developed features for detailed spending statistics and customizable reports to help users understand and manage their finances.
- Technologies Used: Utilized React Native with Expo for a seamless front-end experience, Firebase for analytics and crash reporting, and Amazon Cognito for secure user authentication.

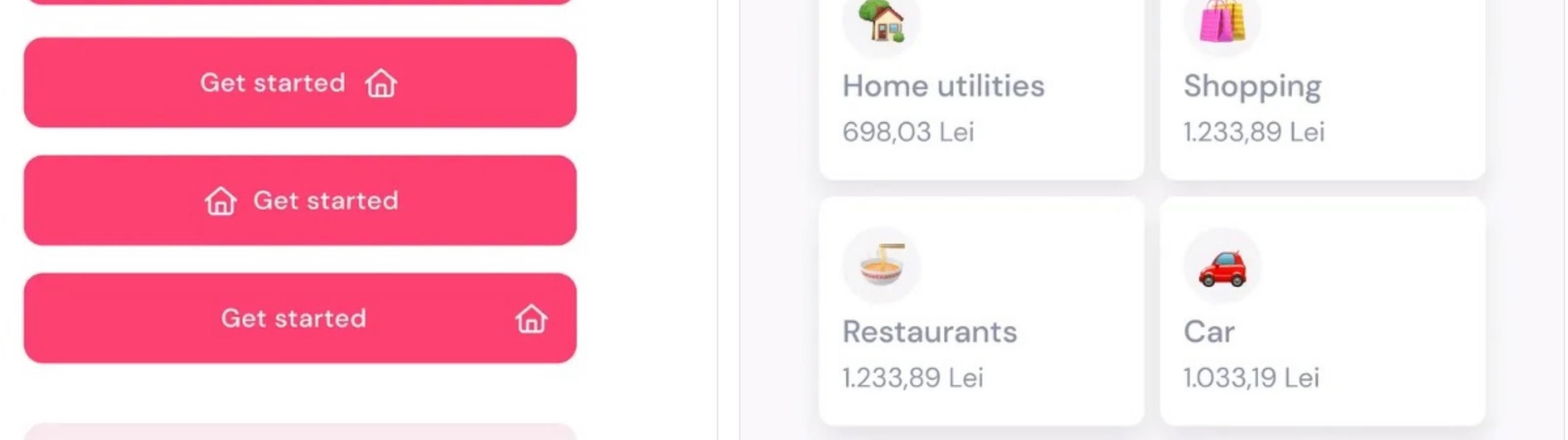
Backend Infrastructure:

- Scalability: Built a scalable backend using Node.js and Nest.js to handle large volumes of data and user interactions efficiently.
- Real-Time Updates: Implemented AppCenter's CodePush for real-time updates, ensuring users always have the latest features without needing to download new versions.



User Flows

For each flow in **Bankata**, we develop user flow diagrams just like this one to help us understand what the optimal user journey looks like.



Design System

The **Bankata Design System** provides a unified component base for both designers and developers to ensure consistency throughout all products.

DM Sans

Bankata empowers users to make informed decisions by comparing financial products, connecting to thousands of bank accounts, and offering comprehensive insights with detailed statistics and reports.

Log In

PRIMARY COLORS

Pink FD4D71

Dark Navy 19232E

Light Pink F8E8F8

Light Green E8F8F2

Light Blue F8F8F8

Green 20C782

Blue 295CD2

White FFFF

Light Grey E8E8E8

Mid Grey 8C93A6

Dark Grey 596073

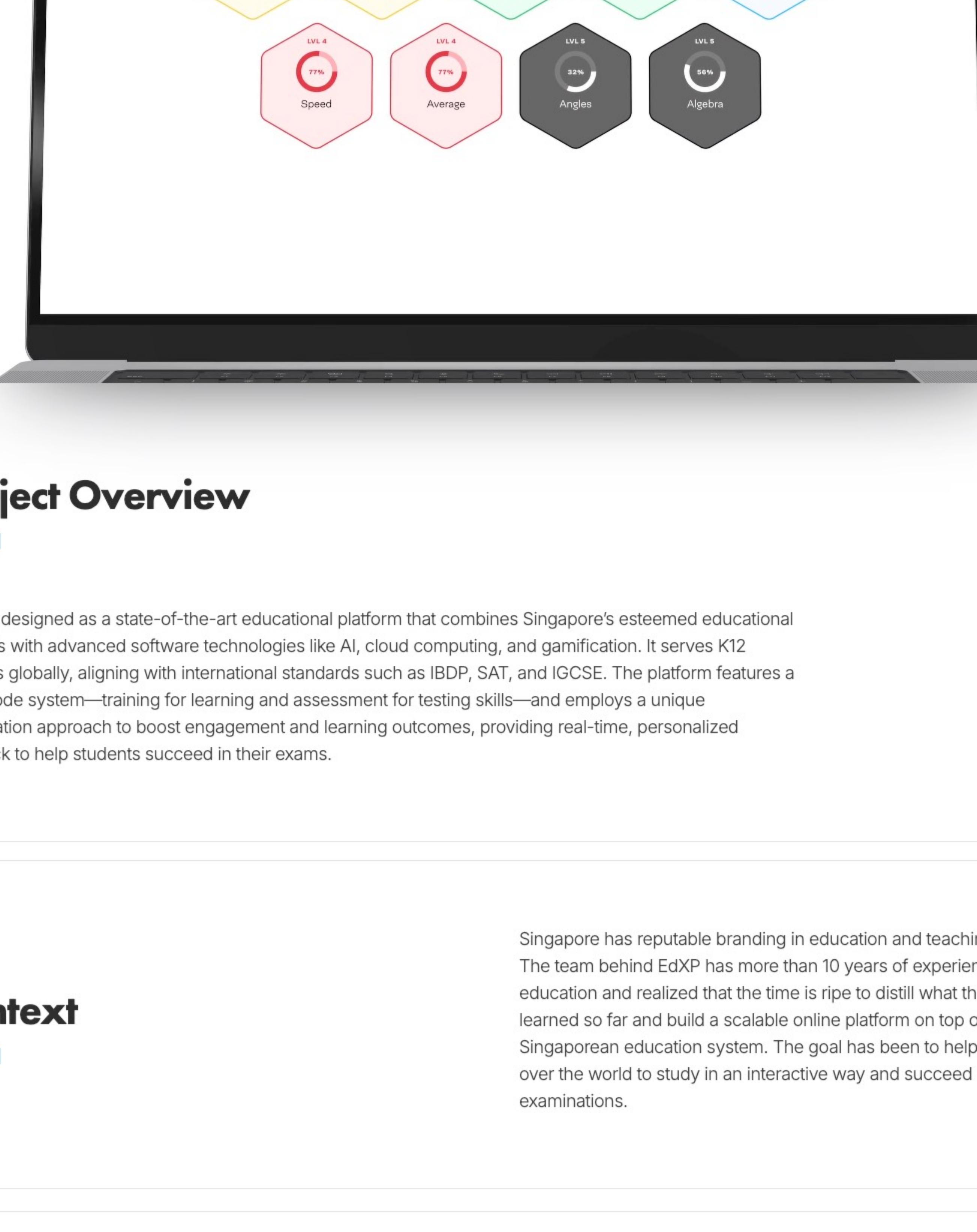
Black 295CD2

Neutral

Other

Educational online platform for improving knowledge and skills

Easy-to-use, accessible education, blending Singaporean education and modern tech.



Project Overview

EdXP is designed as a state-of-the-art educational platform that combines Singapore's esteemed educational methods with advanced software technologies like AI, cloud computing, and gamification. It serves K12 students globally, aligning with international standards such as IBDP, SAT, and IGCSE. The platform features a dual-mode system—training for learning and assessment for testing skills—and employs a unique gamification approach to boost engagement and learning outcomes, providing real-time, personalized feedback to help students succeed in their exams.

Context

Singapore has reputable branding in education and teaching methods. The team behind EdXP has more than 10 years of experience in education and realized that the time is ripe to distill what they have learned so far and build a scalable online platform on top of the Singaporean education system. The goal has been to help students all over the world to study in an interactive way and succeed in their formal examinations.

Impact

2.000+

questions and explained solutions

5

assessment methodologies (SAT, GST, GSE)

10 subjects

including Math, Grammar

Challenges

While building EdXP, we came along some challenges we needed to overcome:

Product Challenges

1. **Curriculum Localization:** Adapting the Singapore curriculum for a global audience requires understanding various educational standards like IBDP and SAT, demanding extensive research and adaptation.

2. **User Engagement:** Implementing gamification needs to enhance learning effectively without becoming a distraction, ensuring it aids in education meaningfully.

3. **Scalability:** The platform must cater to a broad age range in K12, making it crucial to differentiate content and instruction effectively across educational levels.

Technical Challenges

1. **AI Integration:** Integrating AI for personalized learning and assessments involves complex data handling and real-time processing, demanding continuous refinement.

2. **Infrastructure Scalability:** Managing high user loads globally requires a robust, scalable cloud infrastructure to ensure reliable content delivery and uptime.

3. **Data Security:** Protecting sensitive student data and complying with international data privacy regulations like GDPR involves stringent security measures.

Solution

EdXP is a software product developed together with Think Teach Academy, one of the most reputable education service providers in Singapore.

The platform provides accessible training and assessments and helps students across the globe to train for their formal examinations efficiently, through gamification and specific learning.

Training mode

Online training system designed to equip students with the knowledge and skills they need to get better grades on homework, projects, tests, and exams

Assessment mode

The assessment mode is where you check your ability to take an exam. It evaluates your problem-solving skills in a limited time frame.

User engagement with the system was very important from the beginning.

We designed a unique gamification system (with levels, XP points, and progress) that encourages students to improve over time and provides specific feedback on areas to improve for each topic.

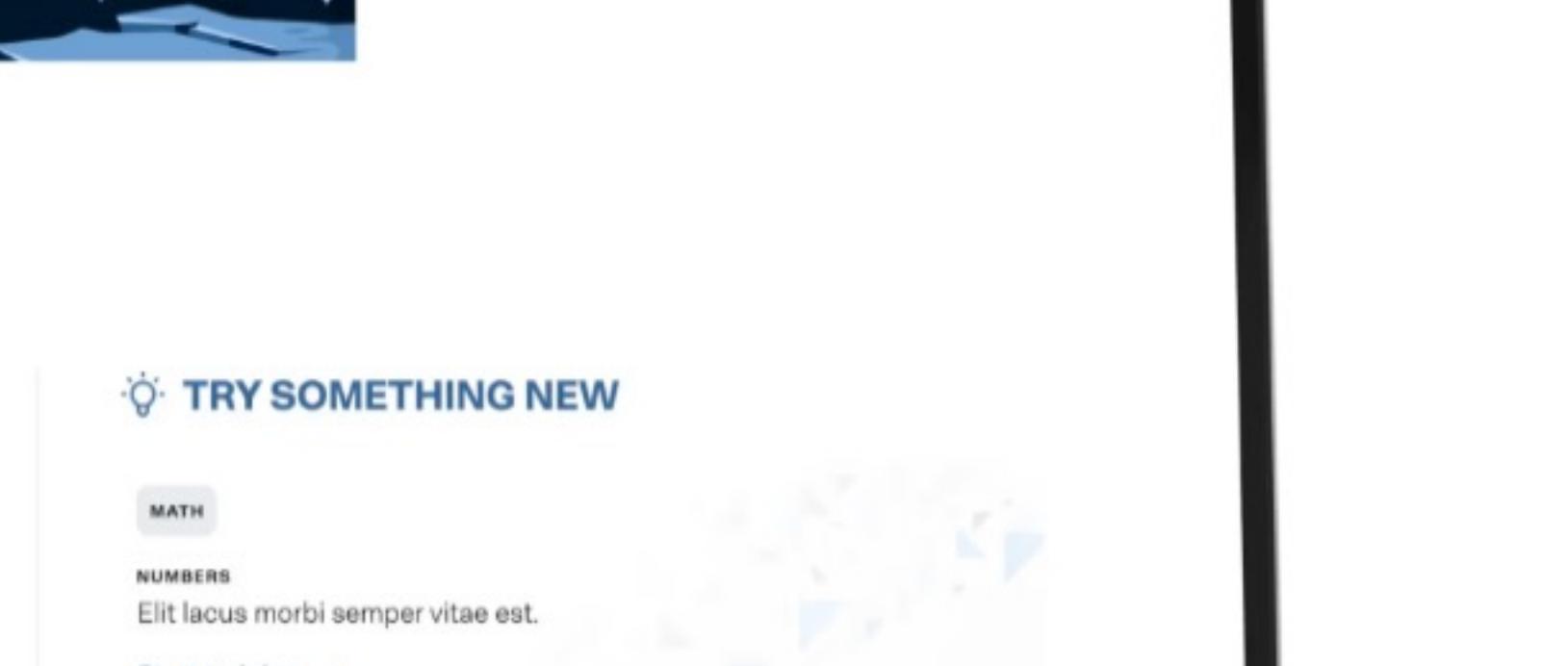


Design System

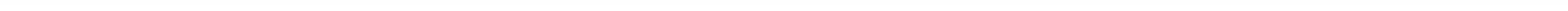
The **EdXP Design System** provides a unified component base for both designers and developers to ensure consistency throughout all products.

Aa

Neogrotesk Pro



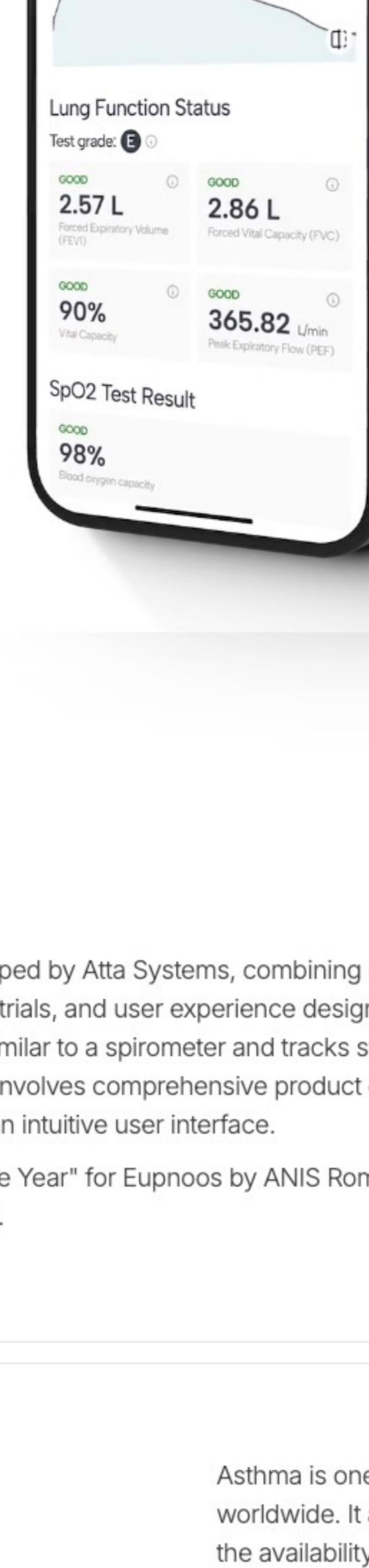
EdXP provides an accessible and easy to use online platform where students all over the world can do training and assessments to improve their knowledge on important education topics.





Respiratory app for lung function tests

The Shazam for diagnosing respiratory diseases



Project Overview

Eupnoos is an innovative respiratory health app developed by Atta Systems, combining expertise in software engineering, sound engineering, pulmonology, clinical trials, and user experience design. Utilizing breath sound analysis, the app performs lung function tests similar to a spirometer and tracks symptoms for better self-management of respiratory diseases. The project involves comprehensive product design and user research to meet patients' specific needs, resulting in an intuitive user interface.

Atta Systems has been awarded the "R&D Project of the Year" for Eupnoos by ANIS Romania, the most significant software companies association in Romania.

Context

Asthma is one of the most prevalent chronic respiratory diseases worldwide. It affects an estimated 300 million people globally. Despite the availability of effective treatment options, suboptimal asthma control is still common. To prevent potentially life-threatening asthma attacks, patients need to be aware of early warning signs of deterioration.

Tracking variations, awareness of triggers, passively measured nocturnal cough, and sleep quality, have been reported to be statistically associated with asthma control in clinical studies.

Impact

5,000+

shipyard workers in Singapore Field Testing

3,500+

forced expiratory trials

4

International Awards

Challenges

Technical Integration and Accuracy:

- Breath Sound Analysis:** Sophisticated algorithms and sound engineering are utilized to differentiate respiratory sounds and conditions accurately.
- Data Accuracy:** It's crucial that the app delivers reliable lung function test results, on par with traditional spirometers.

User Experience and Design:

- Intuitive Interface:** The app is designed to be user-friendly for all ages, focusing on simplicity and ease of use.
- Engagement:** Consistent user engagement is maintained through regular symptom tracking and functionality tests.

Clinical Validation:

- Clinical Trials:** Extensive clinical trials are conducted to validate the app's effectiveness, requiring cooperation with medical institutions and regulatory compliance.
- Regulatory Approval:** The app navigates the regulatory landscape to secure necessary approvals and certifications for medical use.

Data Privacy and Security:

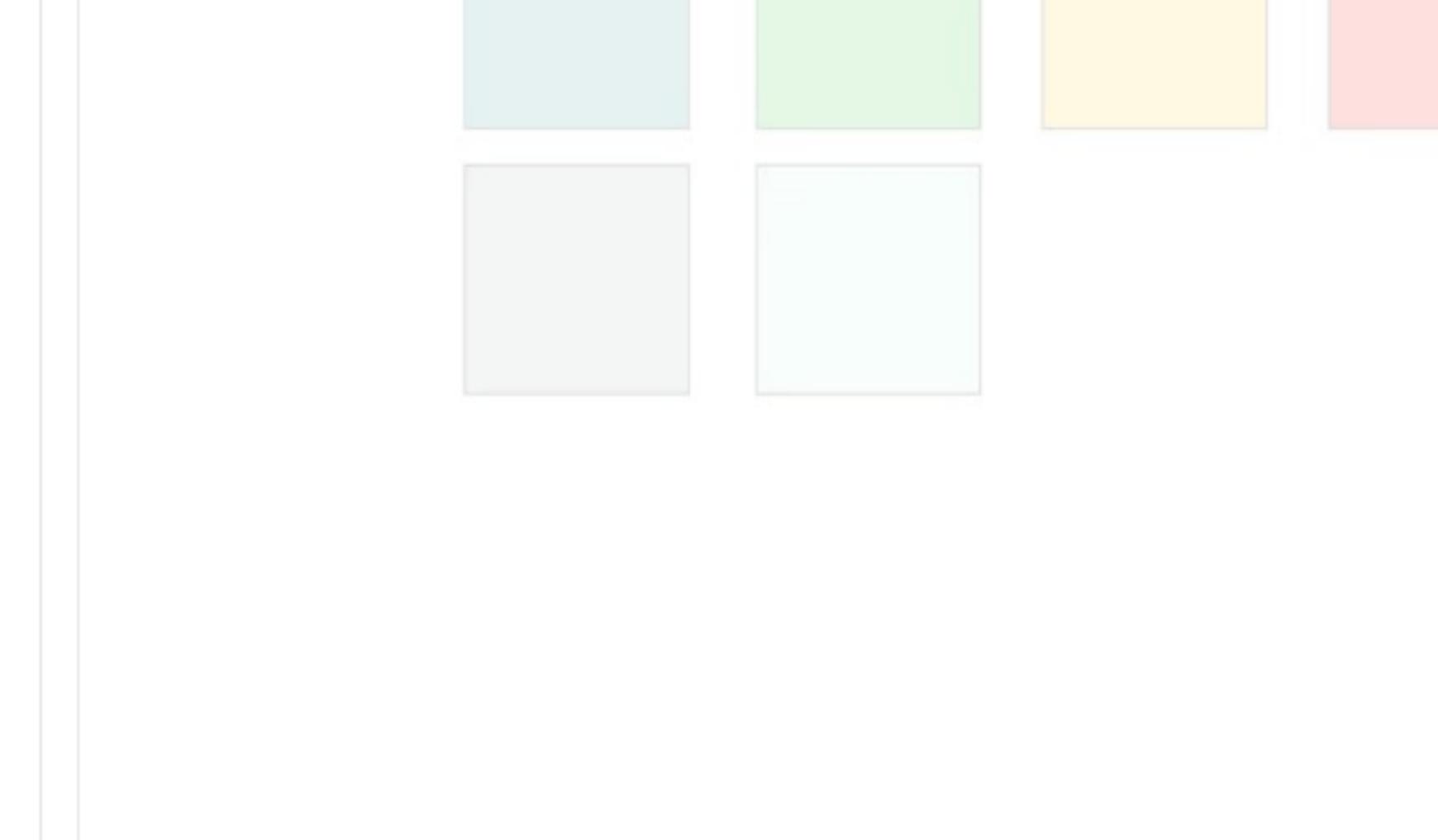
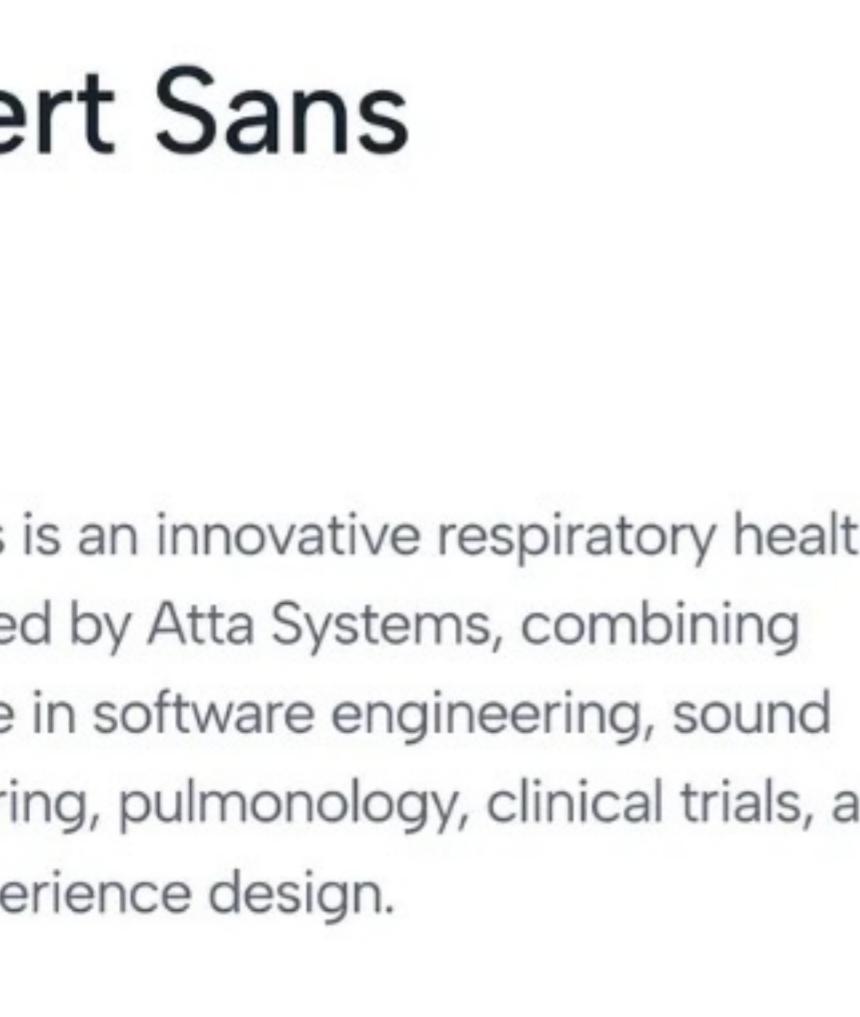
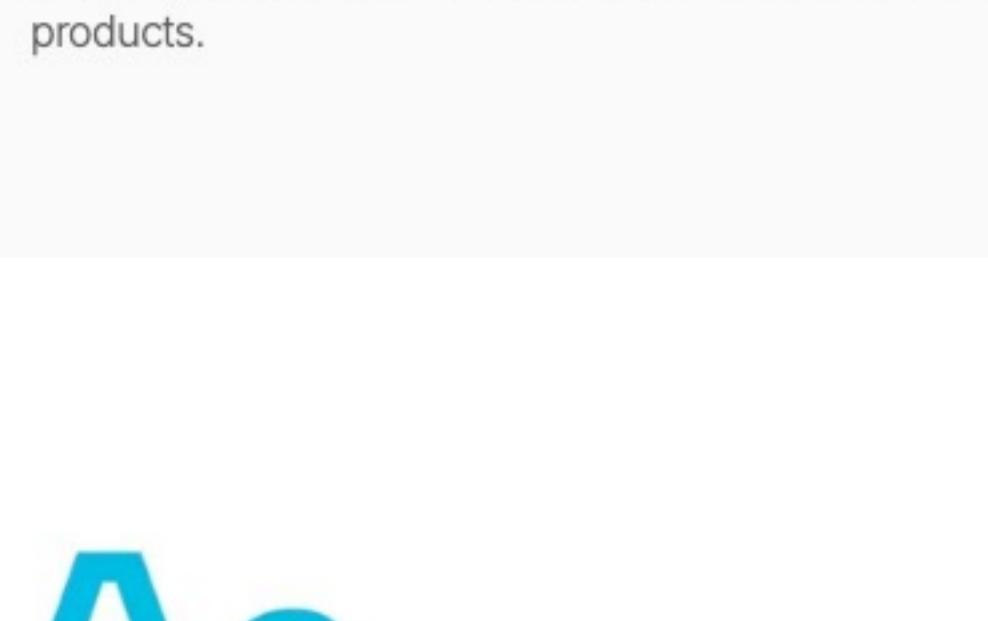
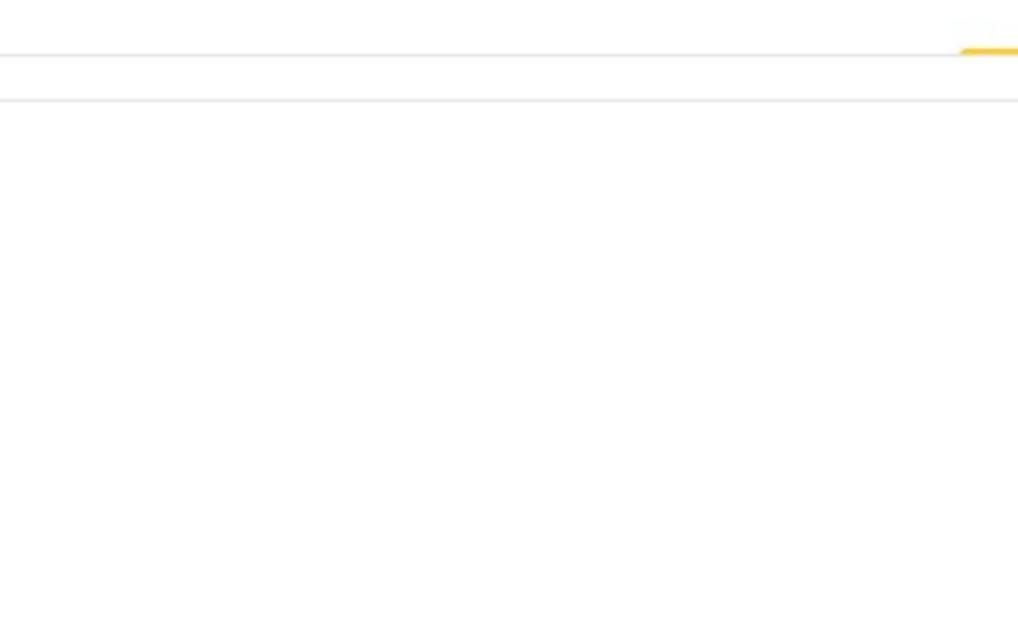
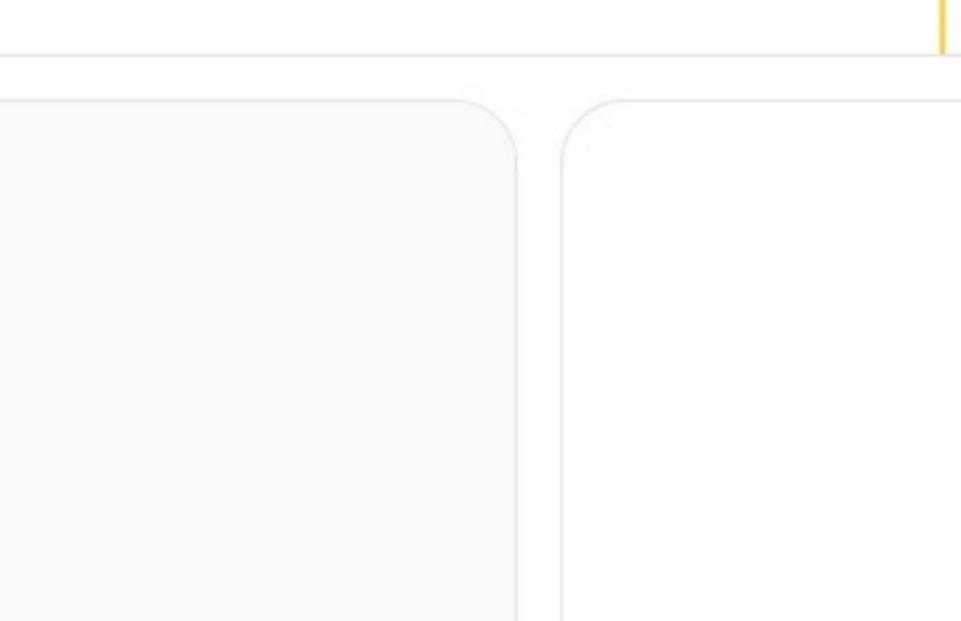
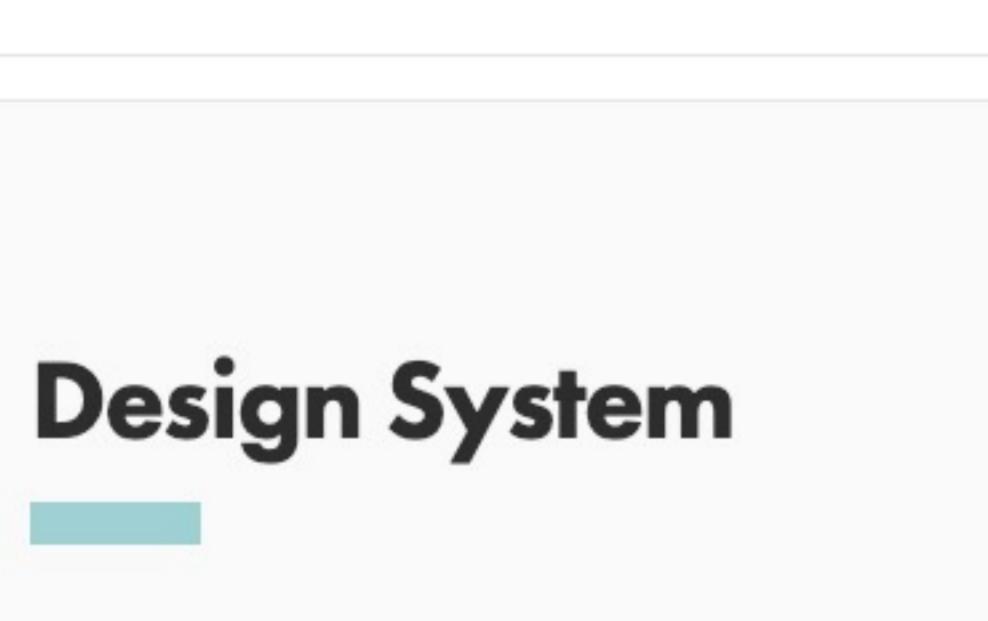
- Compliance:** Adherence to healthcare regulations like GDPR and HIPAA is essential for user data privacy and security.

Data Protection:

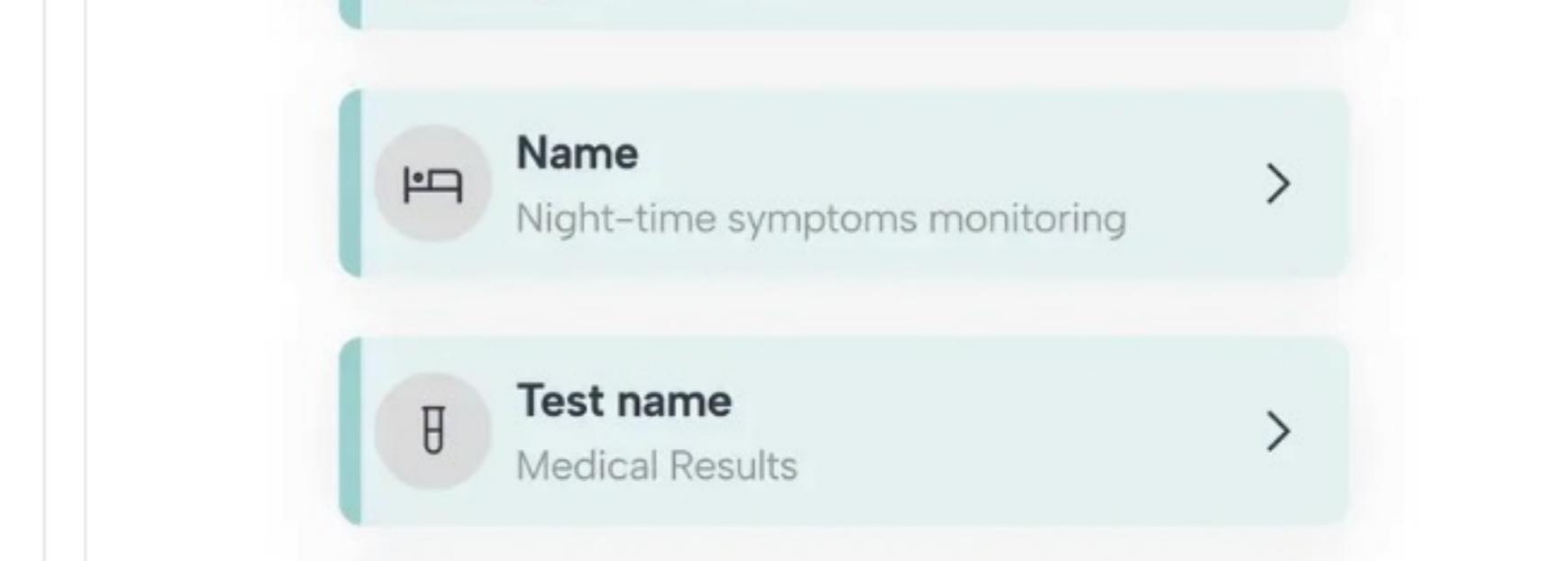
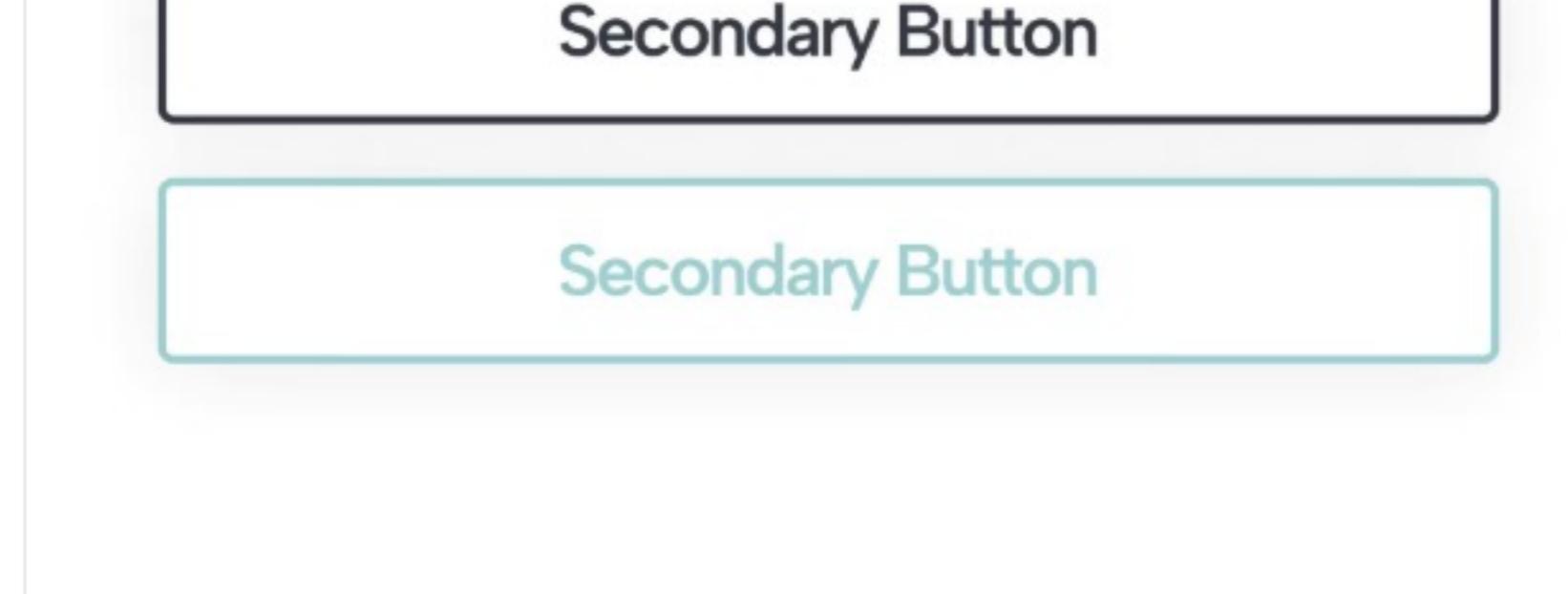
- Robust measures are implemented to protect sensitive health information from breaches.

Solution

Our team started to work on the Eupnoos project in early 2022. Our efforts stand at the intersections of software engineering, sound engineering, pulmonology, clinical trials, and user experience design.



For each flow in **Eupnoos**, we develop user flow diagrams just like this one to help us understand what the optimal user journey looks like.



Design System

The **Eupnoos Design System** provides a unified component base for both designers and developers to ensure consistency throughout all products.

Dark Blue	Bleu	Green	Yellow	Red

Aa

Albert Sans

Eupnoos is an innovative respiratory health app developed by Atta Systems, combining expertise in software engineering, sound engineering, pulmonology, clinical trials, and user experience design.

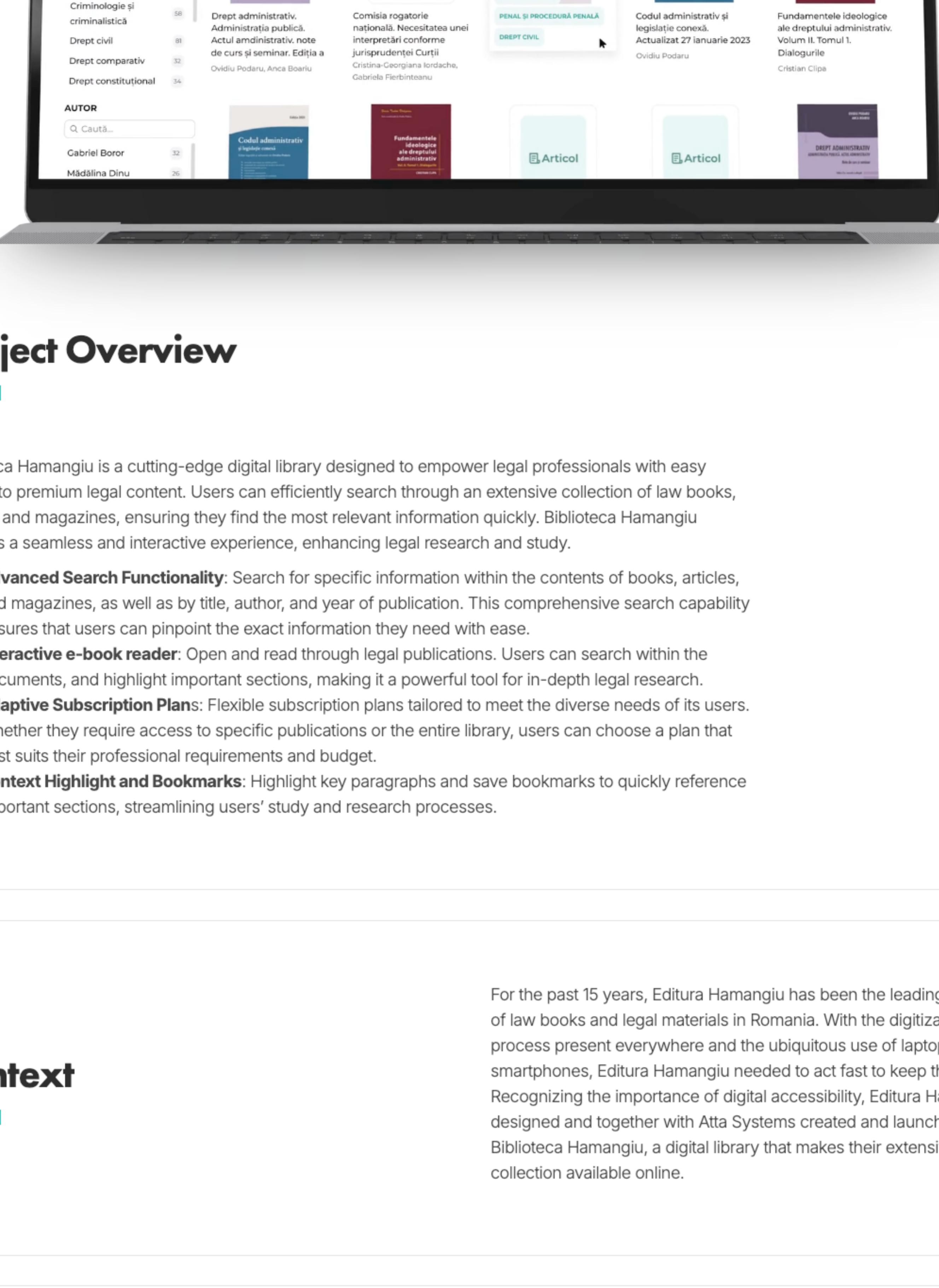


law book publisher in Romania.

The screenshot shows a search results page for the term "Penal și Procedură penală". The results are as follows:

CATEGORIE	DETALII
Penal și Procedură penală	57
Procedură penală	32
Drept public	60
Modul pentru studenți	41
Modul Trial gratuit	16

Below the table, there is a sorting dropdown menu with the options "Sortează după" and "Data apariției". At the bottom left, there is a link to "Articole" with the number 843.



100,000+
searchable publications

- **Search Functionality** Utilizes advanced search algorithms to deliver precise results from a vast repository of legal publications. Includes features that allow users to filter by publication, author, and specific legal topics.
- **Interactive User Experience** Provides a user-friendly interface with intuitive navigation, allowing users to easily search, browse, and interact with legal content.

- # Challenges

 - **Subscription Customization:** We developed a feature allowing users to tailor their subscription plans for Biblioteca Haman. This feature ensures that legal professionals could access the specific publications they needed. Users chose from a variety of plans, each offering access to specific publications, content categories, and features.
 - **Content Security:** Ensuring the security of copyrighted legal publications was a major challenge due to the risk of piracy. We implemented strict measures to protect content within the platform, such as digital rights management (DRM) and regular audits to ensure compliance with copyright laws.

In transforming Editura Haman into a digital platform, we focused on enhancing user engagement through highlighting used to mark legal texts and bookmarking, facilitating efficient research. Understanding the critical needs of legal professionals, we developed a user-friendly interface and robust search functionality to support their daily work. The platform also includes a news section featuring the latest legal news and updates from various sources, providing users with the most current information in their field.

enables extensive magazine publications integration

Admin Panel and Security Controls

Biblioteca Hamangiu features an integrated admin panel equipped with robust security controls to safeguard copyrighted legal publications. Administrators can efficiently manage user access permissions, monitor usage analytics, and configure security settings through this centralized platform. This ensures compliance with industry standards, protects sensitive legal content, and enhances overall platform security while facilitating seamless management of administrative tasks.

Aca

ngiu

Numā
Forma
Limba

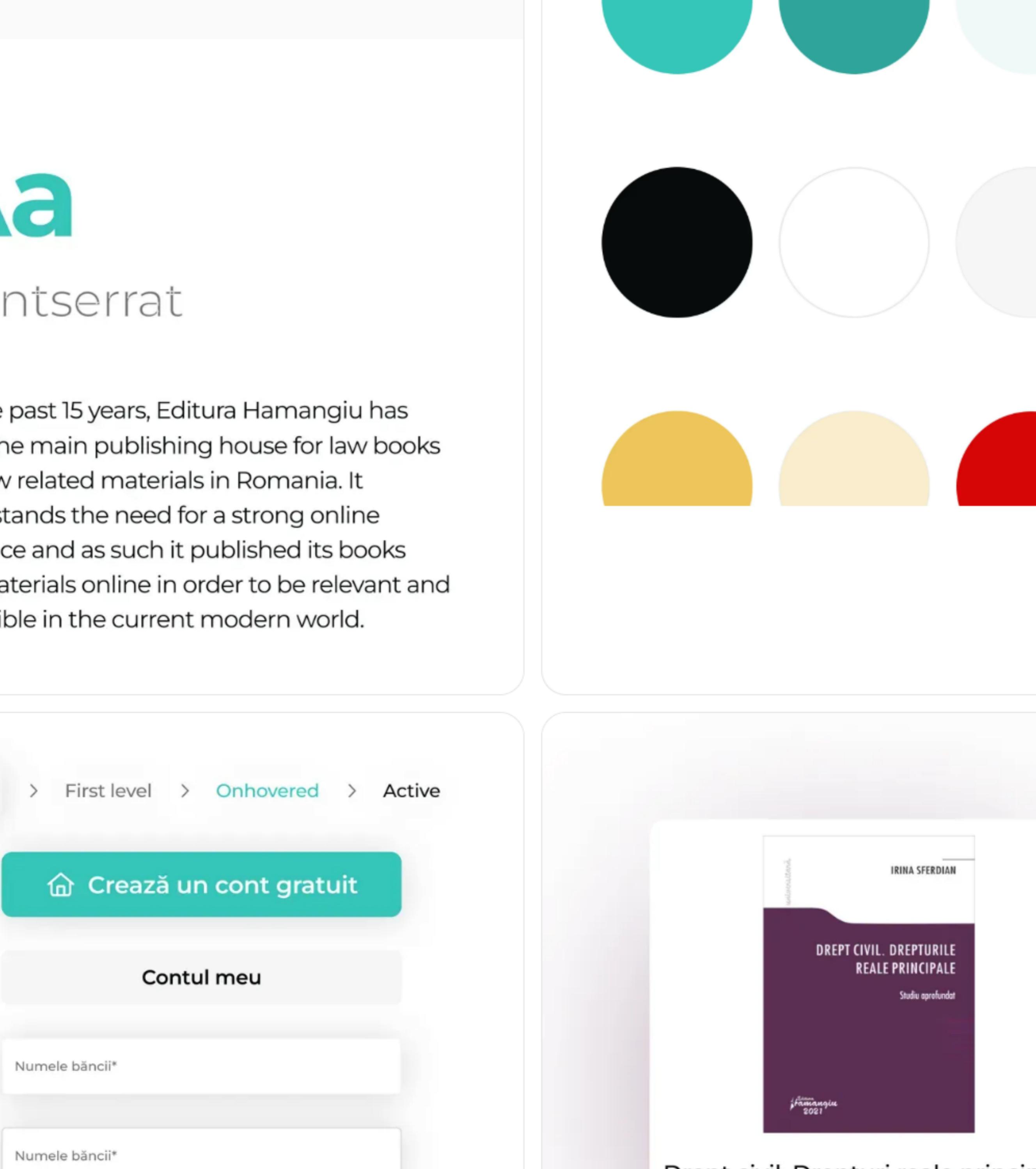
Descriere
Codul penal. Codul de procedură penală. Legile de executare
pe lângă acestea, include și cele două legi de executare a pedep-

A close-up photograph of the bottom edge of a laptop. From left to right, it shows a speaker grille, a trackpad, and a series of ports: a USB port, a Thunderbolt port, a USB port, a microSD card slot, a 3.5mm audio jack, a power port, and two more USB ports.

- ```
graph LR; A{Este logat?} -- da --> B[Proces de cumparare]; B --> C{Produsul cumparat}; C -- altceva --> D[Autentificare]; D -- da --> E{Are cont?}; E --> C;
```

The flowchart illustrates a user authentication and purchase process:

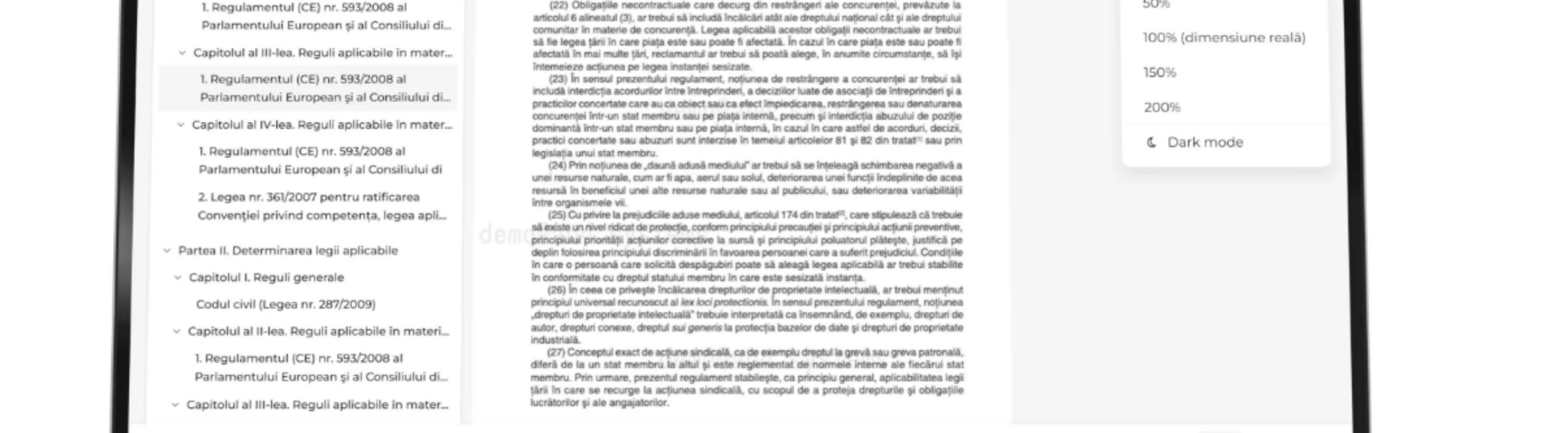
  - The process begins with the question "Este logat?" (Is logged in?).
  - If "da" (Yes), it proceeds to the "Proces de cumparare" (Purchase process).
  - If "nu" (No), it proceeds to the "Autentificare" (Authentication) step.
  - From "Autentificare", if "da" (Yes), it proceeds to the question "Are cont?" (Has account?).
  - If "Are cont?" is "da" (Yes), it proceeds to the "Proces de cumparare".
  - If "Are cont?" is "nu" (No), it proceeds directly to the "Produsul cumparat" (Product purchased) step.
  - From the "Produsul cumparat" step, there is a branch labeled "altceva" (Something else) which loops back to the "Autentificare" step.



Numele băncii\*  
Revolut

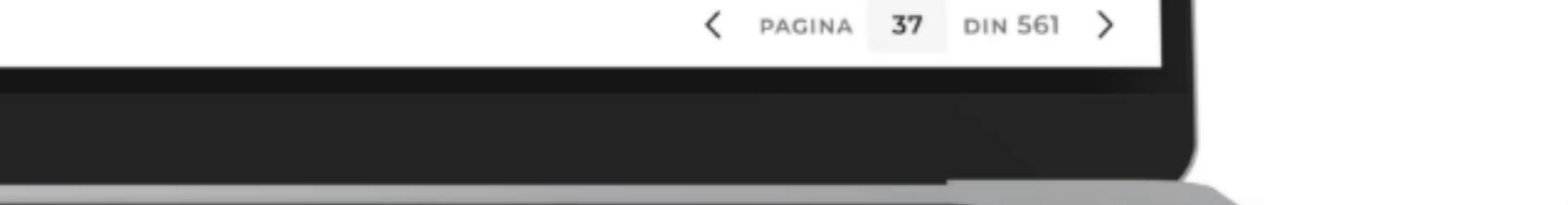
 Legislația privind raporturile de dre... >  
Serban-Alexandru Stănescu



- 1. Regulamentul (CE) nr. 1063/2009 al Parlamentului European și al Consiliului
- ✓ Capitolulul al III-lea. Revenirea la un sistem de reglementare
- 1. Regulamentul (CE) nr. 1063/2009 al Parlamentului European și al Consiliului
- ✓ Capitolulul al IV-lea. Revenirea la un sistem de reglementare

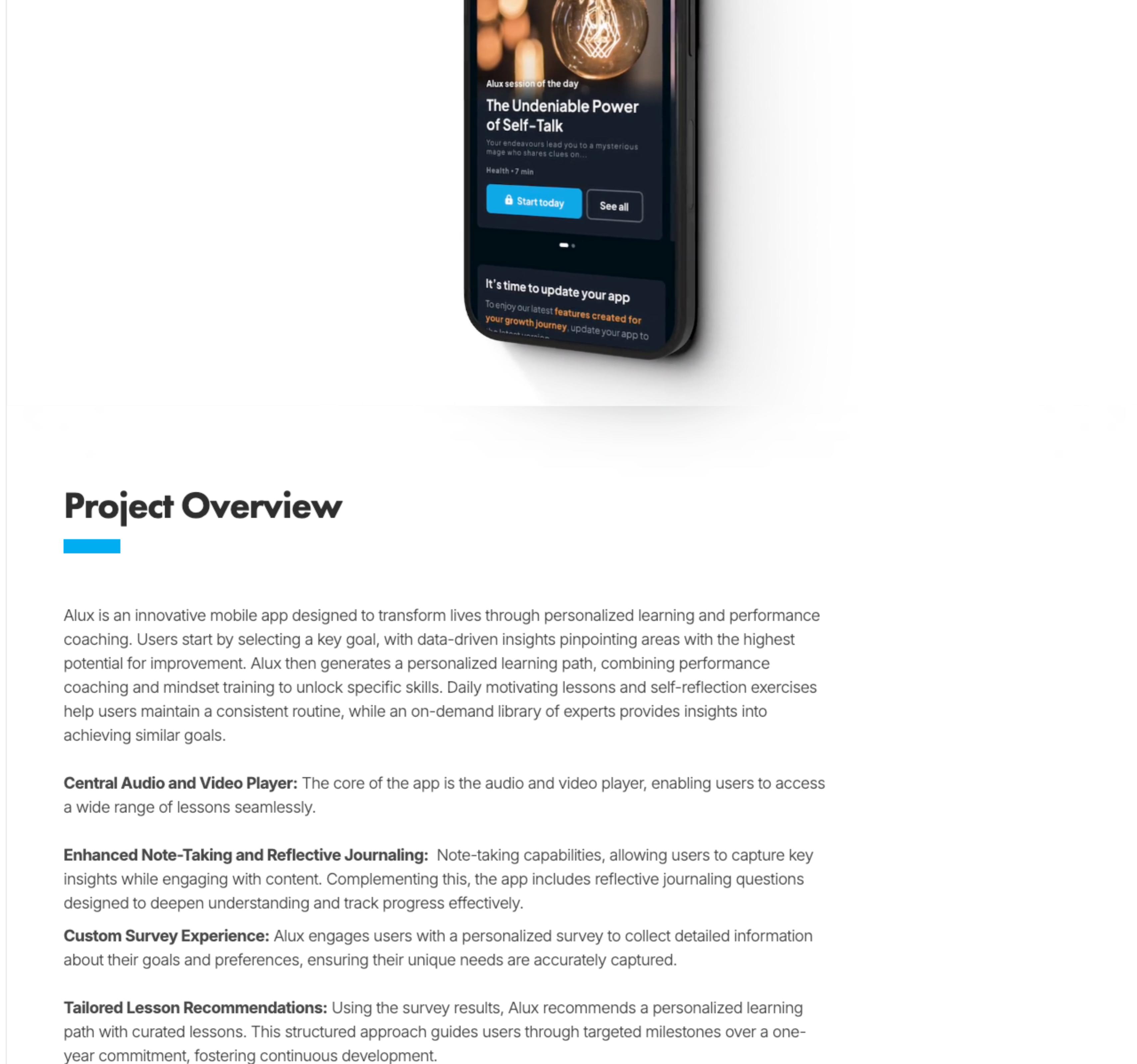
- ✓ Capitolul I. Reguli generale  
Codul civil (Legea nr. 287/2009)
- ✓ Capitolul al II-lea. Reguli aplicabile în mater...  
1. Regulamentul (CE) nr. 593/2008 al  
Parlamentului European și al Consiliului di...
- ✓ Capitolul al III-lea. Reguli aplicabile în mater...





# Online ecosystem for lifestyle, finance and personal growth.

Mobile learning experience for educating aspiring individuals.



## Project Overview

Alux is an innovative mobile app designed to transform lives through personalized learning and performance coaching. Users start by selecting a key goal, with data-driven insights pinpointing areas with the highest potential for improvement. Alux then generates a personalized learning path, combining performance coaching and mindset training to unlock specific skills. Daily motivating lessons and self-reflection exercises help users maintain a consistent routine, while an on-demand library of experts provides insights into achieving similar goals.

**Central Audio and Video Player:** The core of the app is the audio and video player, enabling users to access a wide range of lessons seamlessly.

**Enhanced Note-Taking and Reflective Journaling:** Note-taking capabilities, allowing users to capture key insights while engaging with content. Complementing this, the app includes reflective journaling questions designed to deepen understanding and track progress effectively.

**Custom Survey Experience:** Alux engages users with a personalized survey to collect detailed information about their goals and preferences, ensuring their unique needs are accurately captured.

**Tailored Lesson Recommendations:** Using the survey results, Alux recommends a personalized learning path with curated lessons. This structured approach guides users through targeted milestones over a one-year commitment, fostering continuous development.

## Context

Luxury and personal development content are often seen as exclusive to a privileged few. Alux, a fast-growing media company, democratizes access to these resources with innovative technology and engaging media. By offering inspiration, self-help tools, and educational content, Alux empowers everyone to enhance their focus, boost productivity, and build valuable mental models, regardless of their background. Serving a thriving online community of over 3 million subscribers and reaching 10 million luxury enthusiasts monthly, Alux is a comprehensive self-improvement and fine living hub with a mission to transform the lives of 1 billion people.

## Impact

170k+

app downloads

1200+

audio and video lessons

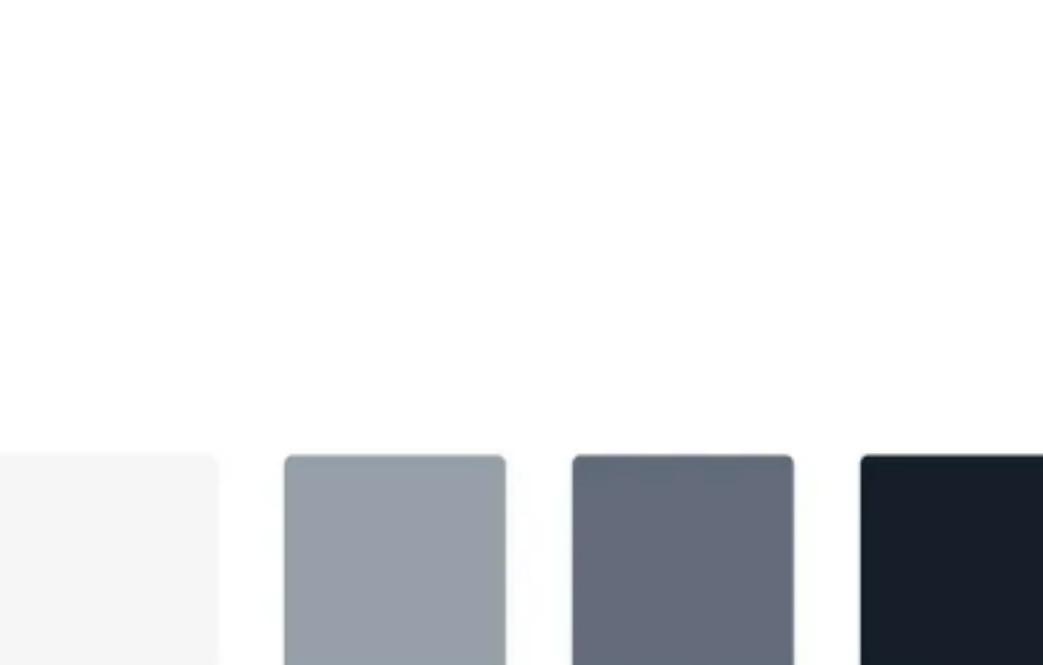
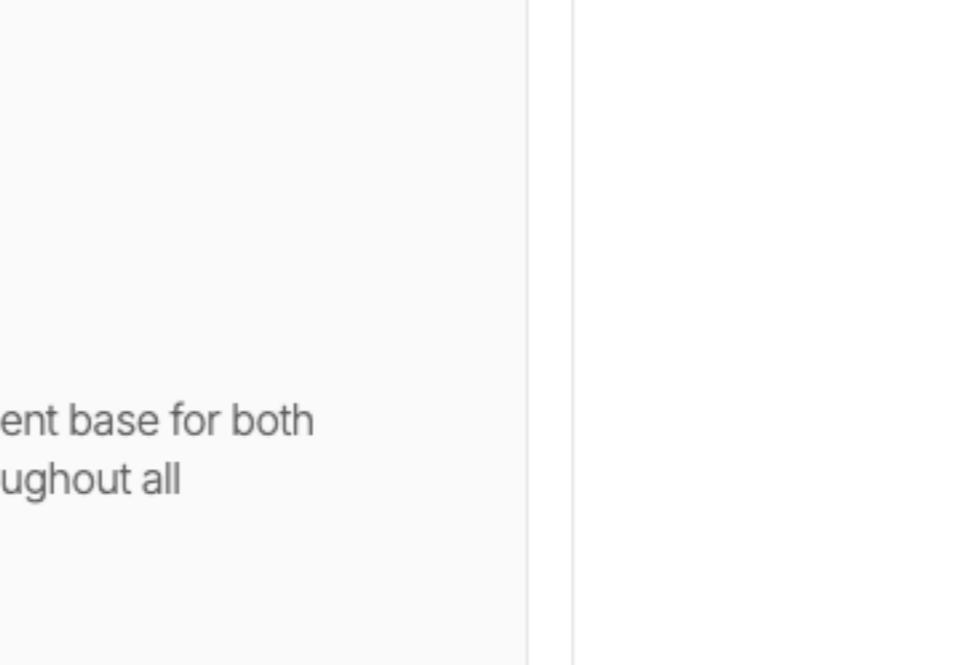
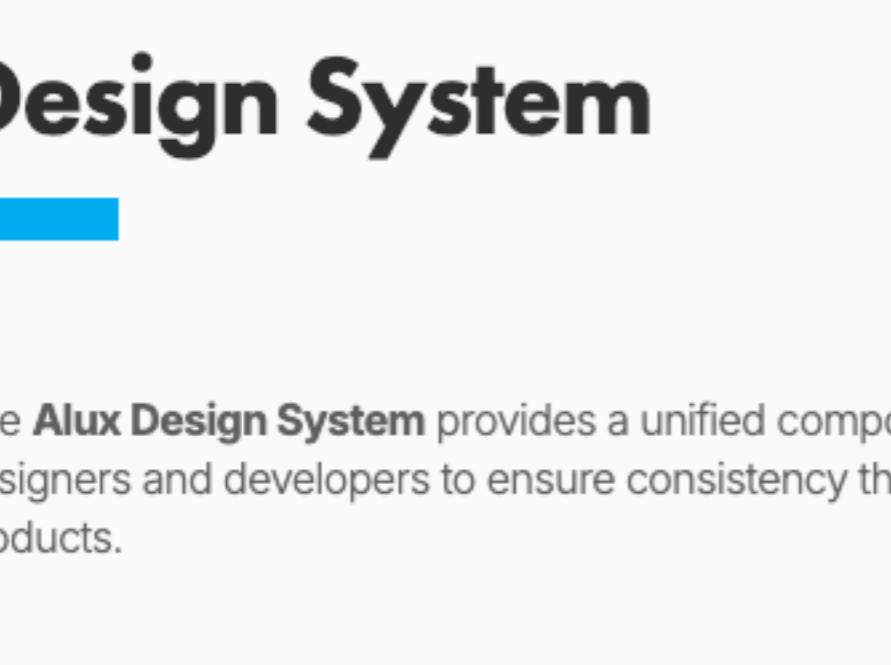
4200+

active users

## Solution

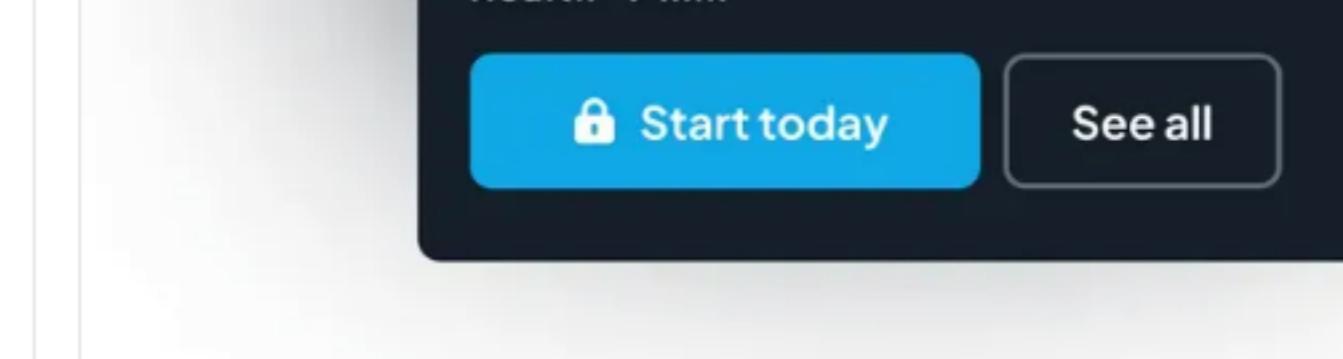
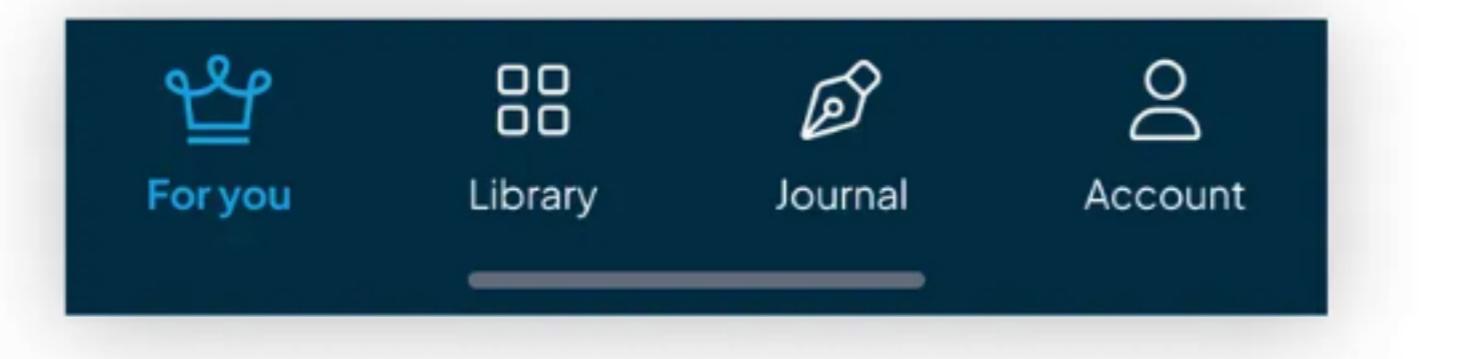
In developing the Alux mobile experience, we prioritized ease of use, speed, and reliability to meet the high expectations of our discerning users. Understanding that Alux's audience seeks the best for themselves and their peers, we crafted a solution that delivers a seamless and immersive experience.

The mobile app, available for both iOS and Android, is supported by a robust backend system built on scalable and reliable infrastructure using Firebase and Amazon AWS. This ensures a smooth and responsive user experience.



## User Flows

For each flow in Alux, we develop user flow diagrams just like this one to help us understand what the optimal user journey looks like.



Terms    Promo code    Restore Purchase



Alux has a thriving online learning ecosystem that educates millions of people around the world. The new Alux mobile app, available for both iOS and Android devices makes it easy for their users to grow on multiple dimensions like lifestyle and finance, with easy to follow audio and video lessons.



# UiPath - Usability testing study

## Remote usability testing study for UiPath users



## Project Overview

Throughout the screening, recruitment and testing process itself, we have maintained constant communication with the client. Our team made sure that they respected their style and working methods.

All interviews were conducted online in the presence of a moderator and observer.

The designated team took care of analyzing the results and delivering the reports with conclusions.

## Context

UiPath is one of the fastest growing software companies ranking 5th in the world in terms of fastest growing SaaS company. UiPath helps organizations to drive efficiency and eliminate waste in business operations. It also enables non-technical businesses and lesser equipped IT departments with the tools they need to build time-saving automations. As such, UiPath needed a fast way to get feedback from their clients in order to improve business on the go.

## Solution

We helped UiPath by running Interview sessions with various types of UiPath users and recruiting them in a fast manner. This was essential for the success of the project. Afterwards, we compiled all the data in a comprehensive report that included our recommendations.

04 Summary & Conclusions

| ID | Username | Tasks | Usability         | Usefulness     | Credibility       | Desirability      | Visual attractiveness | NPS |
|----|----------|-------|-------------------|----------------|-------------------|-------------------|-----------------------|-----|
| 1  |          | 4/5   | Strongly agree    | Strongly agree | Strongly agree    | Strongly agree    | Strongly agree        | 8   |
| 2  |          | 5/5   | Agree             | Strongly agree | Agree             | -                 | Agree                 | 9   |
| 3  |          | 5/5   | Agree             | Agree          | Agree             | Neutral           | Agree                 | 8   |
| 4  |          | 3/5   | Disagree          | Neutral        | Disagree          | Disagree          | Strongly disagree     | 3   |
| 5  |          | 3/5   | Strongly disagree | Strongly agree | Strongly disagree | Strongly disagree | Neutral               | 3   |
| 6  |          | 5/5   | Agree             | Agree          | Agree             | Agree             | Agree                 | 8   |
| 7  |          | 5/5   | Agree             | Strongly agree | Strongly agree    | Strongly agree    | Strongly agree        | 10  |
| 8  |          | 5/5   | Agree             | Neutral        | Neutral           | Agree             | Neutral               | 7   |
| 9  |          | 5/5   | Strongly agree    | Strongly agree | Strongly agree    | Neutral           | Strongly agree        | 10  |
| 10 |          | 4/5   | Neutral           | Agree          | Neutral           | Neutral           | Agree                 | 7   |

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19