



Stellar Soft's Development Flow

Solution research

Product design

Product development

Management and support



Clutch (5.0) ★★★★★

Clutch Overall Rating review 5.0

Upwork 
TOP RATED PLUS

 **shopify**
partners

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• Stellar Soft Organization Departments



Business analysis

We identify points of risk and develop informed solutions that save you time and money. You will receive:

- analysis of systems and processes
- analysis and cleaning of product data
- collaboration on design and content strategy



Project management

We implement and consolidate best practices and processes within your project. Our top project managers will provide you with the following deliverables:

- ensuring the implementation aligns with the project vision
- requirements specification document



Design

We have a sharp mind for absorbing visual trends and deploying them in fresh and exciting ways. You will see this creativity in your:

- benchmarking analysis report and user flows
- sitemaps and wireframes
- interactive prototypes



Programming and engineering for custom projects

You can rely on us to deliver a quality product on time. Besides your software product you will receive:

- source code repository
- technical documentation



Ecommerce Programming and engineering

We are experts in Magento, Shopify and WordPress with 11+ years of experience. Our deliverables:

- architecture design of your platform
- product catalog management setup



Quality assurance

Our QA specialists apply manual and automated testing to maintain the top quality. They deliver the following documentation:

- test plan
- bug reports and test summary reports



DevOps

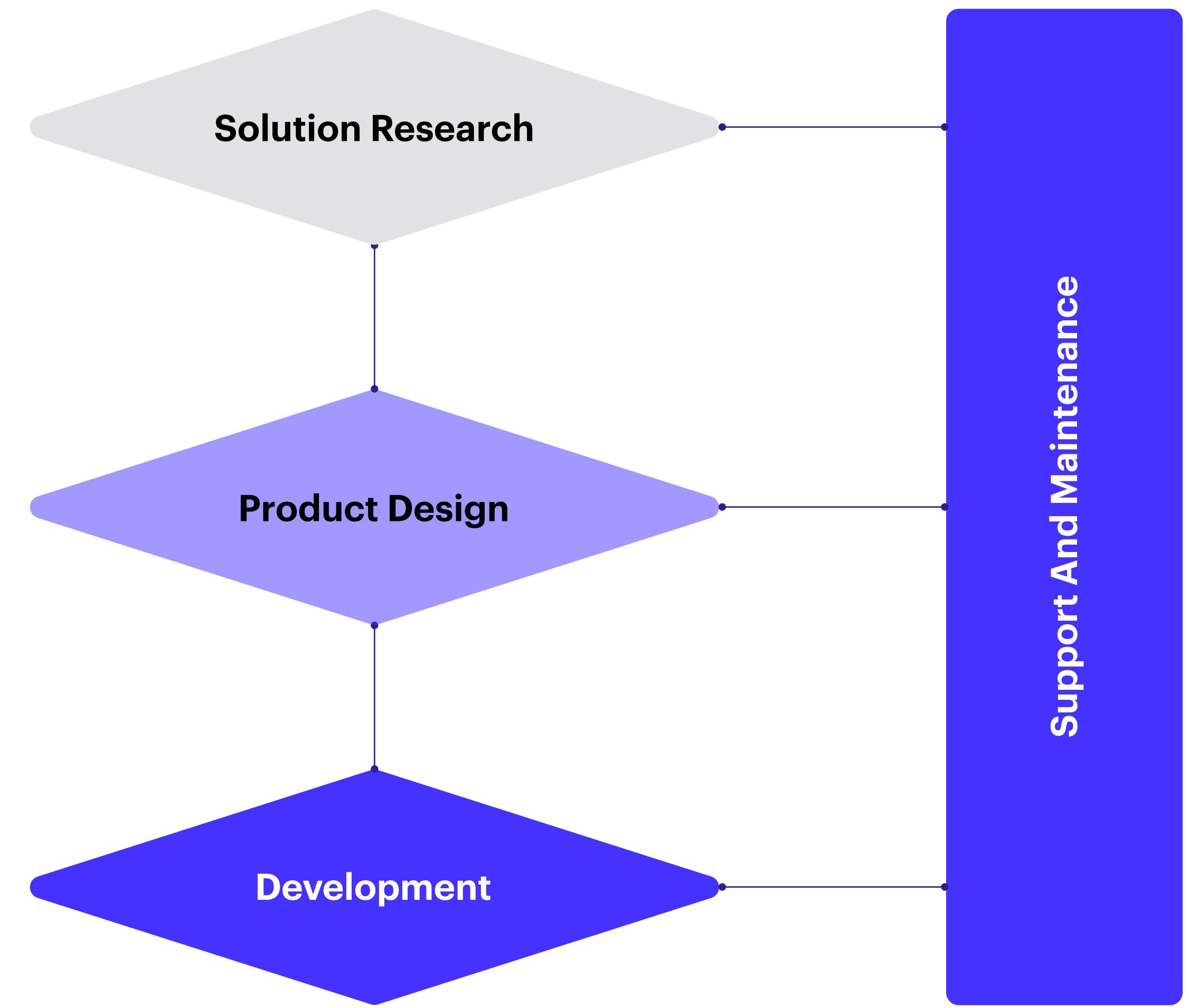
We pride ourselves in strong DevOps expertise. You may count on following deliverables:

- infrastructure as code (IaC) scripts
- CI/CD pipeline configuration
- monitoring and logging setup

- Step by step development workflow

Step by step development workflow

Our workflow outlines all activities and interactions between your team and ours, along with a list of deliverables provided after each activity.



- **Solution research phase**

Solution research phase

As a solution-first company, we define and assess your business goals. This step may be different for you if you have a new project or an existing product.

Stages of the solution research phase:

1. Ideation for a new product:
 - Concept definition;
 - Scope definition;
 - Estimation.
2. Evaluation of an existing product:
 - Code audit;
 - UX review;
 - Exploratory testing;
 - SEO Audit.

Ideation for a new product

For new projects, we assess the viability of the business idea, identify potential markets, and possible business solutions. **This includes:**

Action	Team member	Result
Initial call with a client / Concept definition	Requirements manager	<ul style="list-style-type: none">• Find out your expectations and business goals• Gather all documents and information from the client• Get answers to initial questions
Creation of project vision / Scope definition	Business analyst / Requirements manager	<ul style="list-style-type: none">• Create a project vision• Define a main structure• Find all the possible and required software solutions
Estimation	Tech team	<ul style="list-style-type: none">• Prepare your architecture solution• Make an estimation based on the project vision
Proposal creation	Requirements manager	<ul style="list-style-type: none">• Prepare a cooperation proposal based on the estimation hours and project scope

Concept definition

In the concept definition and evaluation phase, we start by understanding your needs, your processes, and the problems the product will solve, as well as identifying the target audience. We also conduct an in-depth analysis of potential users, direct and indirect competitors, the strengths and weaknesses of the product, and its key value propositions. This information will help us outline the feature list for your product or first release and create an offer for the development stage.

Deliverables



Usually it is a first or second call with the customer, where we ask a list of questions.

Examples of the questions below:

?

What goals would you like to achieve after the development?

?

Who are the main competitors on the market?

?

What are the key problems your customers face?

?

What is the target geographic market of the software?

?

What are the weaknesses of each competitor?

?

What is the background of the project? How did you come up with it?

?

Is it going to be a multi-language app?

?

How will you generate income?

?

Which business processes, performed by each customer, should the software automate?

?

Is integration with other software needed? If yes, is the software already defined or in use?
If no, what types of software should your solution integrate with?

?

Should GDPR be considered?
Are there any other regulations critical to consider when developing software solutions in your business domain?

Scope definition

To establish a clear vision and define the project scope, we create a document called the "Project Vision," which includes a high-level project description.

To describe the product's functionality, we start with the general and move to the specific. First, we create a list of epics— the main features of the product. Then, we break these epics into stories, which are brief descriptions of user needs. We write the stories using a specific template.

Deliverables



At the end of this stage, you get a project vision. The most important document for our solution-first approach.

Project description

The website is an online platform for individuals and companies needing to organize events of any type or scale, from birthday parties to festivals and exhibitions. It provides users with information about the event organizing company, the types of events it offers, and the ability to select and pay for events online.

Problem statement

The company currently operates exclusively offline, limiting its market reach, advertising, and sales channels.

Tech solution

To develop the website as an additional sales channel.

Stakeholders

Developer - Stellar Soft

Customer - NDA

Customer clients - People of all ages who need to organize events of any type or scale.

Needs

Need 1: Sell event planning services online.

Example of a project vision page

- Solution research phase

Estimation

After finding possible software solutions, we prepare an estimate of the hours required for UI/UX design, development, QA testing, and management. We work with team leads to estimate the project, as they are familiar with their teams and can accurately assess the time needed for each task. This allows the client to clearly understand the project timeline and cost.

Deliverables



At the end of solution research, you get a rough estimation of your future product.

Section	Tasks	Design	Min frontend Estimate	Max frontend Estimate	Min backend Estimate	Max backend estimate	Comments / Notes
General	Local Setup		16	18	16	18	Local setup with 2 nodes (to ensure scalability and flawless working of the environment)
	DB Structure		0	0	20	24	
	CI/CD		0	0	8	12	
Auth	Login		4	6	7	8	Includes sms confirmation code
	Register		12	14	16	18	Includes register email template, sms service integration, business account notification
	Forgot password pop-up		5	6	3	4	Includes email template
General components	Header		28	36	24	30	"Frontend estimation is an assumption - design is coming soon from the client Search will be global "
	Footer		3	5	1	2	
	Menu		5	7	3	4	
	Start button		2	3	3	4	Includes: change the button according to page - Start diary, Ask question, Start Contest etc
	Breeder & Growers: Card & Linear View (2 card view and 3 linear view mode)		6	8	0	0	

Backend								
General	Local Setup	18						
	DB Structure	14	10					
	CI/CD		12					
Auth	Login		8					
	Register			18				
	Forgot password pop-up				4			
General components	Header				12	16	2	
	Footer						2	
	Menu						4	
	Start button						4	
	Development hours per week	32	30	18	16	16	12	0
	QA	3	3	2	2	1	0	0
	Buffer	5	5	3	2	2	0	0
	Total	40	38	23	20	20	15	0
Frontend								
General	Local Setup			13	5			

Proposal preparation

The final step of the solution research phase is preparing the proposal. This document outlines the solutions we will implement for you and provides a complete list of the functionality you will receive.

Deliverables

At the end of this stage, you get an official development proposal for your future project.

Budget and time estimation for the system development

We are pleased to provide an extensive breakdown of the budget and time estimation for the forthcoming system development project. Our approach aims to deliver a comprehensive understanding of the financial and temporal aspects of this endeavor.

- **Services** - The project encompasses a range of services, each categorized into subcategories within the development process. These subcategories delineate the intricate phases and tasks required for the project's successful execution;
- **Total, h** - For each subcategory, we have meticulously calculated the anticipated hours needed for proficient completion. These estimations are grounded in a granular analysis of the specific requirements and intricacies of each service segment;
- **Rate, h** - To achieve accuracy and transparency, we have assigned a cost per hour to each subcategory. This hourly rate reflects the cost of labor and expertise necessary for the associated tasks, thus providing an extensive overview of the financial considerations for the project;
- **Total cost** - The "Total Cost" represents the culmination of our meticulous budget estimations for each subcategory. It signifies the maximum budget allocation required for the successful implementation of each facet of the project.

Services	Total, min h	Total, max h	Rate/hr	Total min cost	Total max cost
Back-end development (PHP/Laravel)	593	881	€40,00	€23 720,00	€35 240,00
Front-end development (Vue.js)	458	646	€30,00	€13 740,00	€19 380,00
Design UI/UX	40	96	€20,00	€800,00	€1 920,00
DevOps	60	94	€45,00	€2 700,00	€4 230,00

- Solution research phase

Evaluation of an existing product



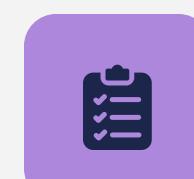
Code audit

A report with prioritized issues and detailed information on each issue and a recovery plan with suggestions on how to fix the issues.



UX review

List of prioritized UX design issues and a recovery plan with recommendations on how to fix the identified issue.



Exploratory testing

In-depth understanding of all features and integrations in the project.



Code audit

We conduct a code audit to assess the stability, scalability, and maintainability of your platform and identify potential security vulnerabilities. Our team analyzes the codebase, database structure, and server infrastructure, evaluates the product's technical debt, and takes steps to reduce development time and costs.

Deliverables

At the end of this stage, you get a report with prioritized issues and detailed information on each. This report also contains a recovery plan with suggestions on how to fix the identified issues.

Monitoring/exceptions tracking tool

I would recommend to set up both tools since they are absent. It will give an ability to track exception which can appear in the production and staging environments on the front-end side and detect application bottlenecks.

CI/CD

CI/CD is absent. We recommend to set up it and it will give us an ability to find and address bugs quicker, improve software quality, and reduce the time it takes to validate and release new software updates.

Assets

The JavaScript and CSS are scattered in the application, it would be great to move all dependencies under the [yarn](#).

Examples:

- [app/assets/stylesheets/bootstrap.scss](#)
- [app/assets/javascripts/underscore.min.js](#)
- [vendor/assets/javascripts/pubsub.js](#)
- [Gemfile#L64](#)

Autotest quality

Test coverage of the application is low. This is a bad indicator, considering that the application not small. It's quite hard to change some code or redo some part of this app if you couldn't be sure that you don't break some other part of this application.

Also, I would recommend cleaning RSpec configuration based on the next [article](#), and would recommend using the next gems:

- [simplecov](#)
- [bullet](#)
- [test-prof](#)

Example of report with prioritized issues and detailed information

UX review

A user experience review allows us to detect all usability issues.

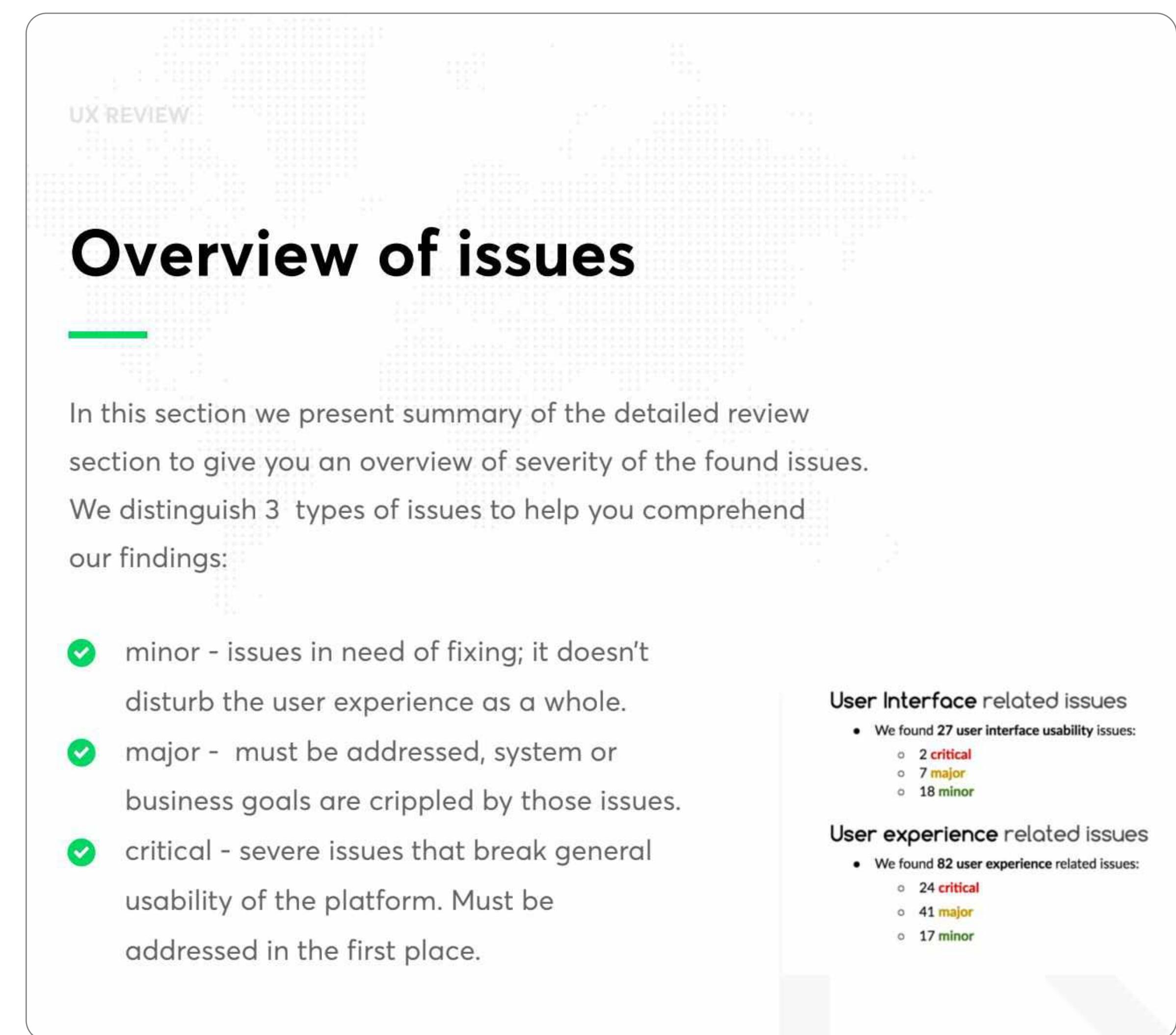
During a UX review, we analyze visual design cues and UX standards on every page or screen of the platform, measure product usability, and check for compliance with common design principles and best practices.

This in-depth analysis allows us to come up with recommendations to optimize your web or mobile app, improve business performance, and increase ROI.

Deliverables



After the UX review, you get a document with a list of prioritized issues and detailed information on each. This document also contains a recovery plan with recommendations on how to fix the identified issues.



UX REVIEW

Overview of issues

In this section we present summary of the detailed review section to give you an overview of severity of the found issues. We distinguish 3 types of issues to help you comprehend our findings:

- ✓ minor - issues in need of fixing; it doesn't disturb the user experience as a whole.
- ✓ major - must be addressed, system or business goals are crippled by those issues.
- ✓ critical - severe issues that break general usability of the platform. Must be addressed in the first place.

User Interface related issues

- We found 27 user interface usability issues:
 - 2 **critical**
 - 7 **major**
 - 18 **minor**

User experience related issues

- We found 82 user experience related issues:
 - 24 **critical**
 - 41 **major**
 - 17 **minor**

Example of report with prioritized issues and detailed information

- Solution research phase

Exploratory testing

During this stage of solution research, quality engineers compare the platform's functional specifications and design with its actual performance. This results in an "as-is" and "should-be" reports, which include a list of changes and bugs for the development team.

Deliverables



After this stage, our team gains an in-depth understanding of all features and integrations in the project. You will receive a list of all identified discrepancies and a feature breakdown list. The feature breakdown created during exploratory testing is the same as the one produced during scope definition.

Objective	This testing session will explore the Integration feature of Bird Eats Bug		
Actor	Testing with admin role who can control all the settings		
Test environment	Using staging environment with BEB extension latest version. The account will be assigned to each user.		
Test data	Test with both newly sign up and existing accounts. Account details will be specified in the below section.		
Priority	High		
Preferences	Ticket 123 (hyperlink)		
Duration	90 minutes		
Tester Name	<Tester 1>		
Integration Settings	Verify integration settings are working Jira toggle (Connect/Disconnect) Slack toggle (Connect/Disconnect) Github toggle (Connect/Disconnect)		
	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Slack Notification	Verify Slack notification is working Connect to slack public/private channel Slack App notification Slack web notification Session Contents Hyperlink navigation Session Preview on notification		
	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Jira Integration	Verify admin is able to post bug to Jira from BEB sessions Validate required fields in Jira integration Post a BEB session to Jira Click on session link on Jira (using both BEB's user and non-user)		
	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Github Integration	Verify admin is able to post bug to Github from BEB sessions		

Example of the test report

- Solution research phase

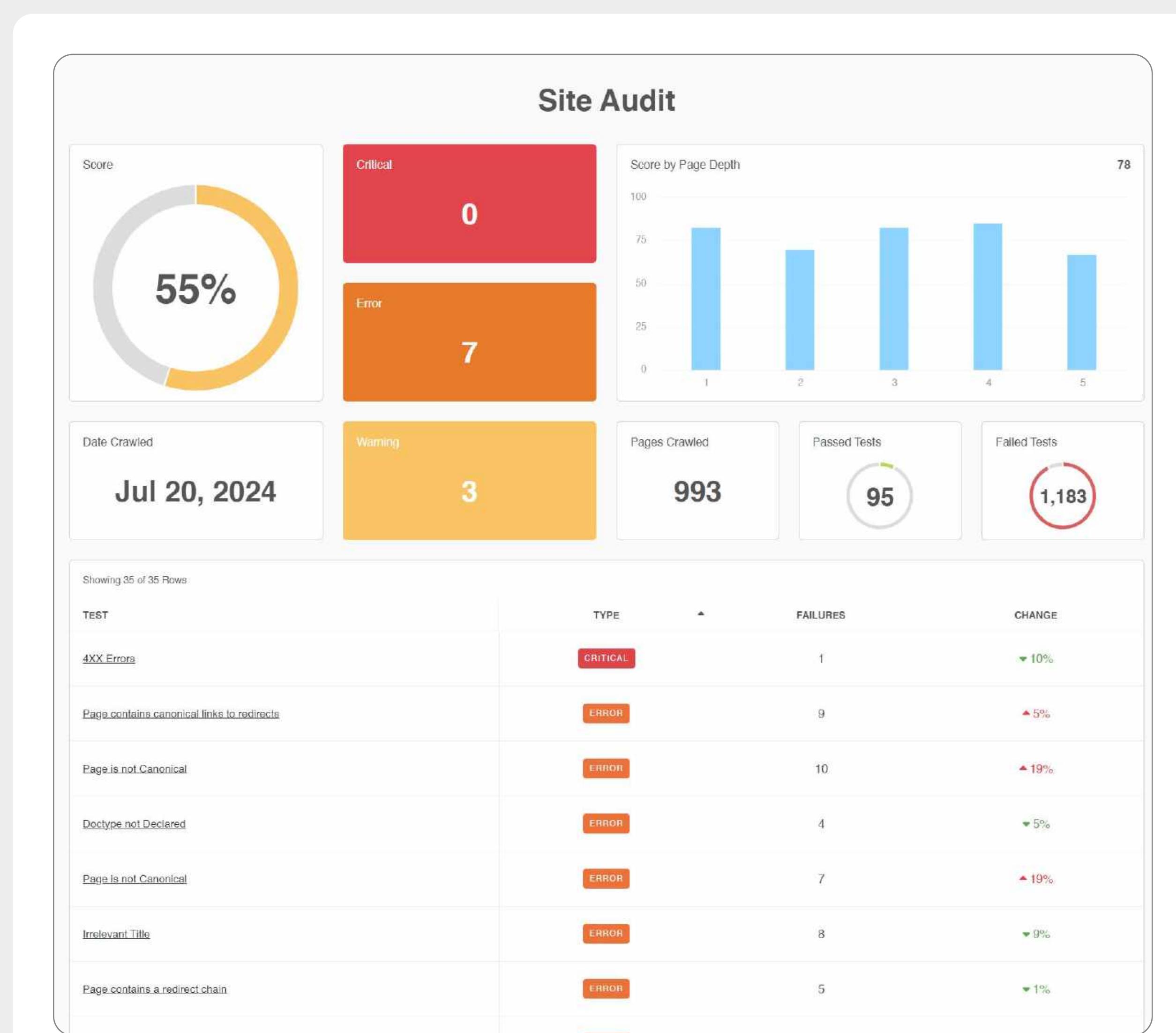
SEO Audit

As a solution-first company we aim at satisfying your customer base. We'll work with you to understand your business goals, target audience, and key competitors. Then, we'll evaluate your site's structure, crawlability, indexing, mobile-friendliness, page speed, URL structure, XML sitemaps, and content.

Deliverables



A comprehensive SEO audit report, with recommendations for addressing issues and optimizing the website for better search engine performance, user experience (UX), and conversion rate optimization (CRO).



Example of the SEO audit report

Product design

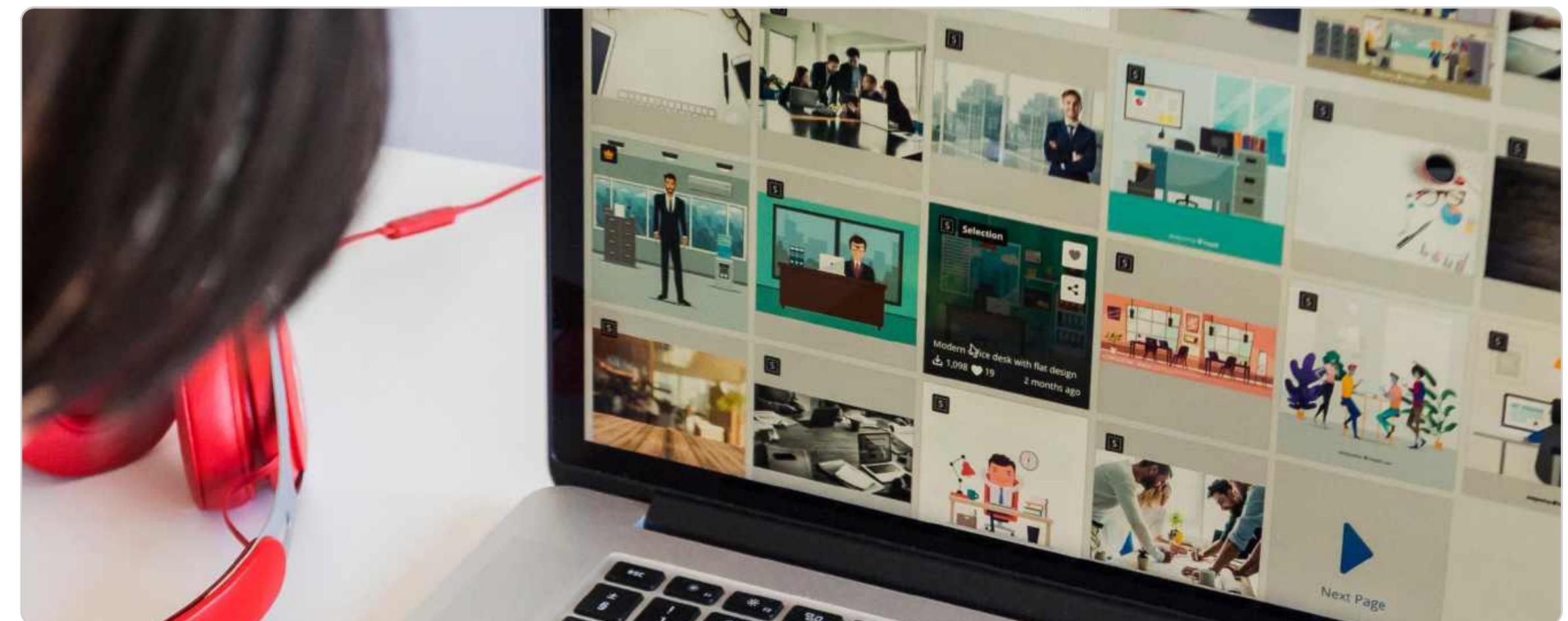
Unlike the previous step, the product design step is essential for every feature. During this phase, the Stellar Soft team defines the business goals and needs for each feature, then develops a software solution to meet them.

At the end of this step, you'll receive a completed user experience design, product prototype, and a description of the product's business logic, all in formats accessible to stakeholders, developers, and quality engineers.

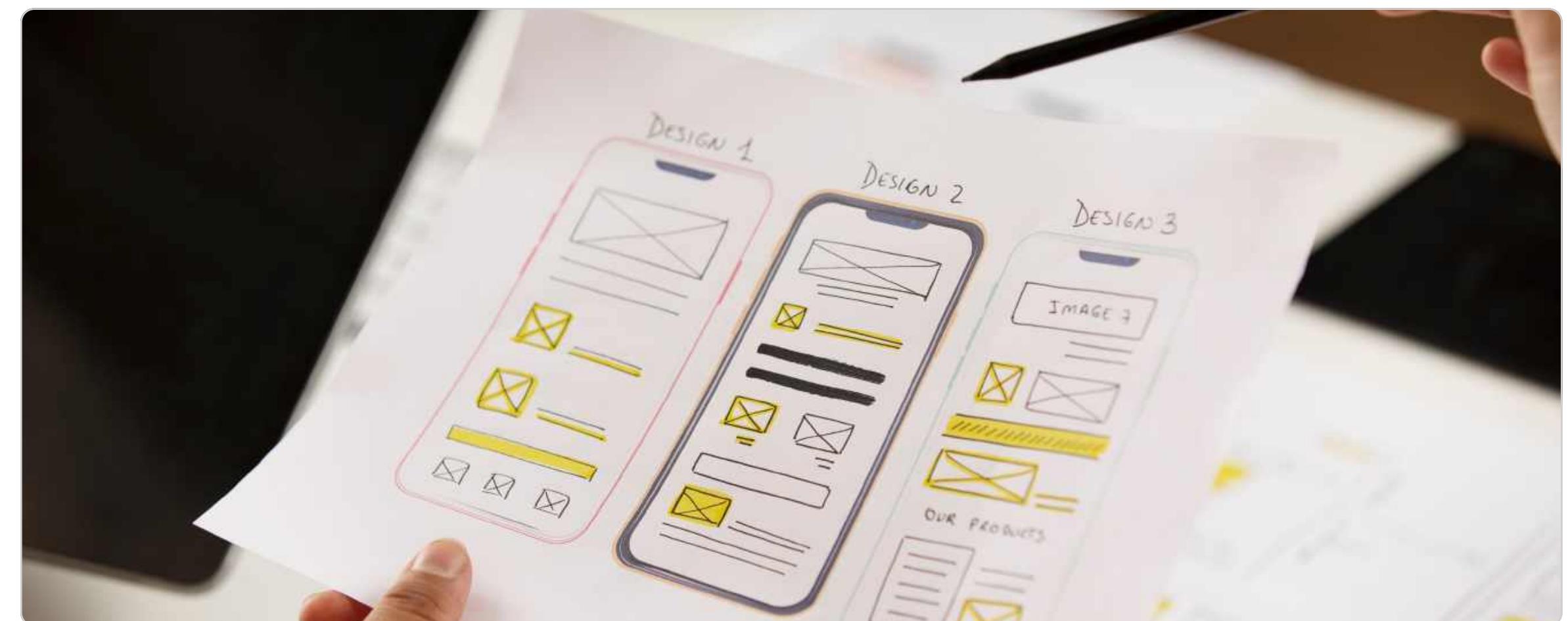
This step will consists of:

1. Requirements engineering
2. User experience design

Requirements engineering



User experience design



Requirements engineering

This step includes comprehensive work with requirements to make sure all stakeholders and the design, development, and quality assurance teams have the same vision of the platform functionality. For this purpose, we create functionality specifications as epics, user stories, and given-when-then scenarios.

Deliverables



At the end of this stage, you will receive:

- user roles matrix
- non-functional requirements
- functional specifications (including epics, user stories, and given-when-then scenarios)
- feature breakdown list.

The feature breakdown list we create during requirements engineering is the same as the one produced during scope definition and exploratory testing.

User Story:

As a registered user, I want to sign in to the platform using my email or mobile phone number, so that I can have access to the website

Acceptance criteria:

1. The sign-in page must provide options to sign in with:
 - a. **Email**
 - i. When the email option is selected, the page must display the following fields
 1. Email address
 2. Password
 - ii. When the user clicks on the Sign in button the system should
 1. Verify the email address and:
 - a. If email address is valid open the Confirmation code pop-up and send a confirmation code to the user's email address
 - b. If the email address is not valid the system should show the "Please enter a valid email address." message
 - iii. The user should be able to enter this code in the confirmation code window
 1. The user should be able to click on the Send confirmation link if he didn't receive a code in a minute
 - iv. Click the Confirm button should redirect the user to the Home page
 1. The Confirm button should be not active till the user enters the confirmation code
 - b. **Phone number.**
 - i. When the phone option is selected, the page must display the following fields
 1. Phone number
 - c. When the user clicks on the Sign in button the system should
 - i. Verify the phone number and:
 1. If Phone number is valid open the Confirmation code pop-up and send a confirmation code to the user's phone
 2. If the phone number is not valid the system should show the "Please enter a valid phone number." message

Example of functional specification

User experience design

To ensure a smooth and intuitive user experience, we follow a research-driven approach, starting with in-depth design discovery. This includes benchmarking, market research, consumer analysis, and design best practices. The result is a product that addresses the end customer's needs more effectively than competitors' products.

Deliverables



At the end of this stage, you receive a benchmarking analysis report, user flows, sitemaps, wireframes, prototypes, and UI texts. These documents are essential for saving development time, minimizing risks, and creating a product that meets customer demands.

Pay attention!

We can skip this step if we use CMS (Magento, Shopify or WordPress) and work with theme design.

Benchmarking analysis report

The good

- Well designed sign up form: defined all states of fields, inline validation, description and required tips to each text field.
- Support link in the footer.

The bad

- It's a bad practice to ask phone number in sign up form; it significantly decreases conversion rate [1].

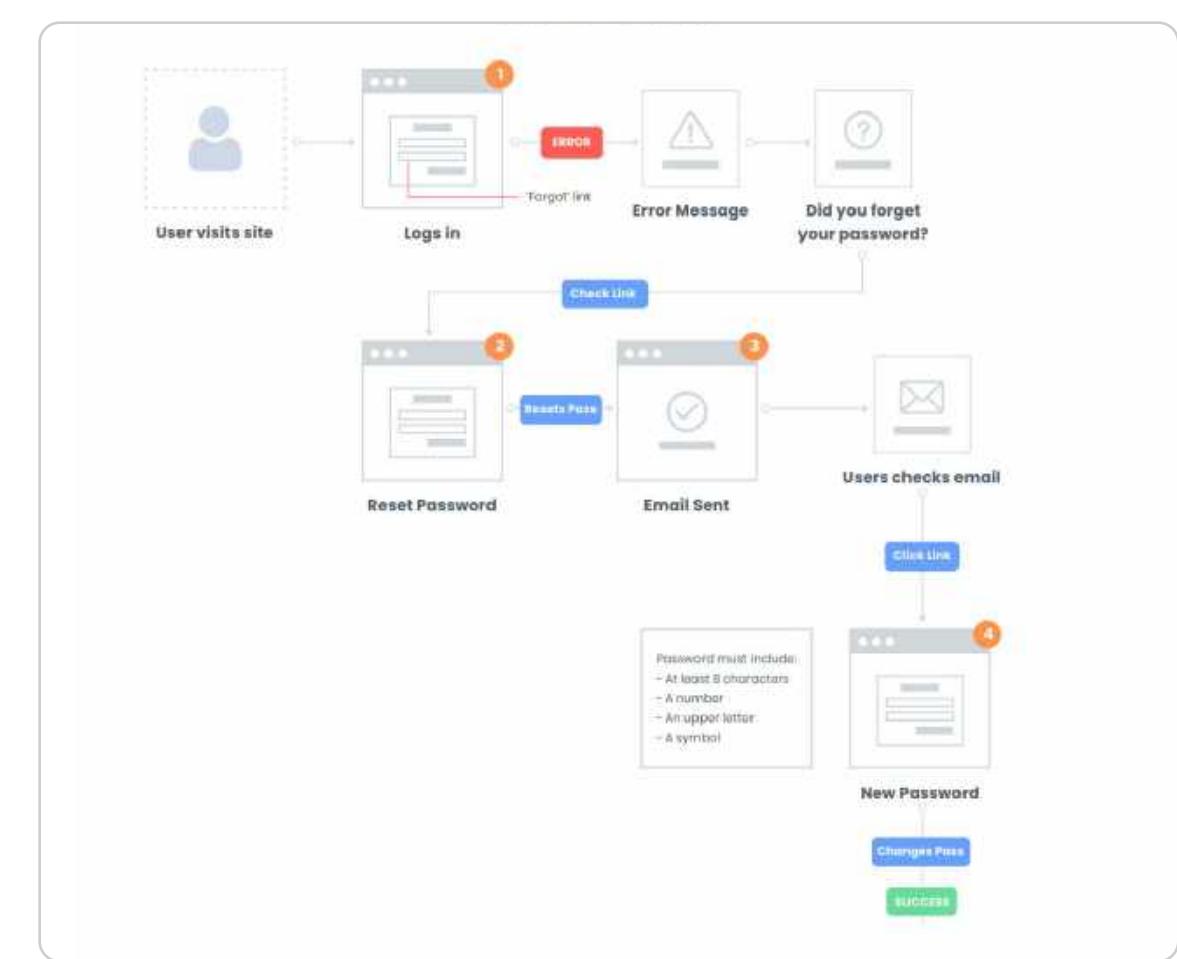
The good

- Well elaborated system of suggestions based on the user interests, dates, and location.
- Well designed cards of events, the user can find all general detail about events from the overview list.

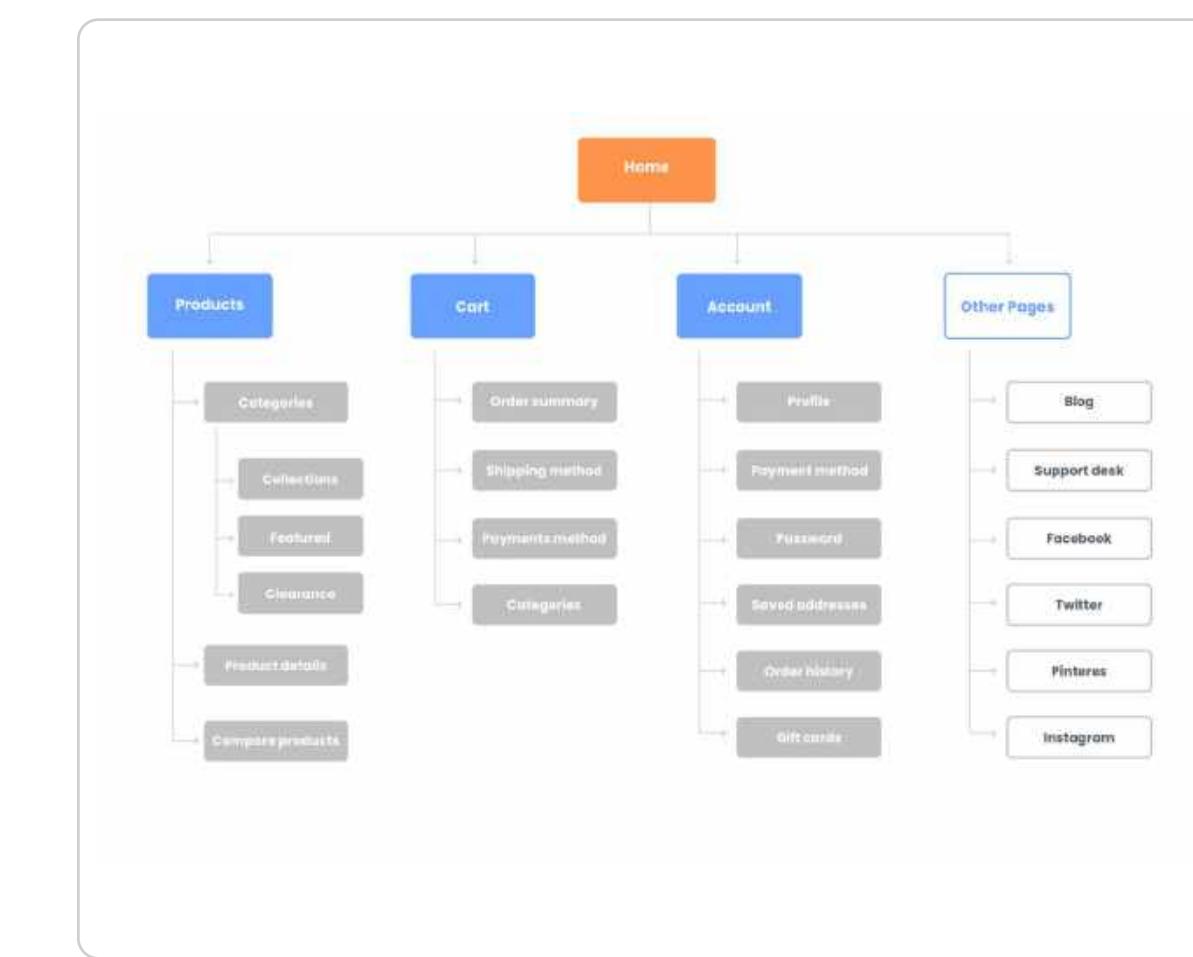
The bad

- The system of filtering and sorting of events looks a bit tricky.

User flows



Sitemaps



Wireframes

Company Profile

Company Details
Your company public info which customers will use to contact you

Company Logo
You can upload only JPG and PNG format. Size of image shouldn't be more than 10 MB

Location Info
Information about your company location which your customers will see

Address Line 1: Bailey Centers Apt. 699
City: Virginia
Select Country: USA

Product development

We repeat the product development process for each feature to create a final visual representation and implement it in code. This step also includes various testing techniques to identify and fix any issues before the product is released.

This step will consists of:



User interface design



Server-side application development



Client-side application development



Infrastructure management and DevOps



Quality assurance



User interface design

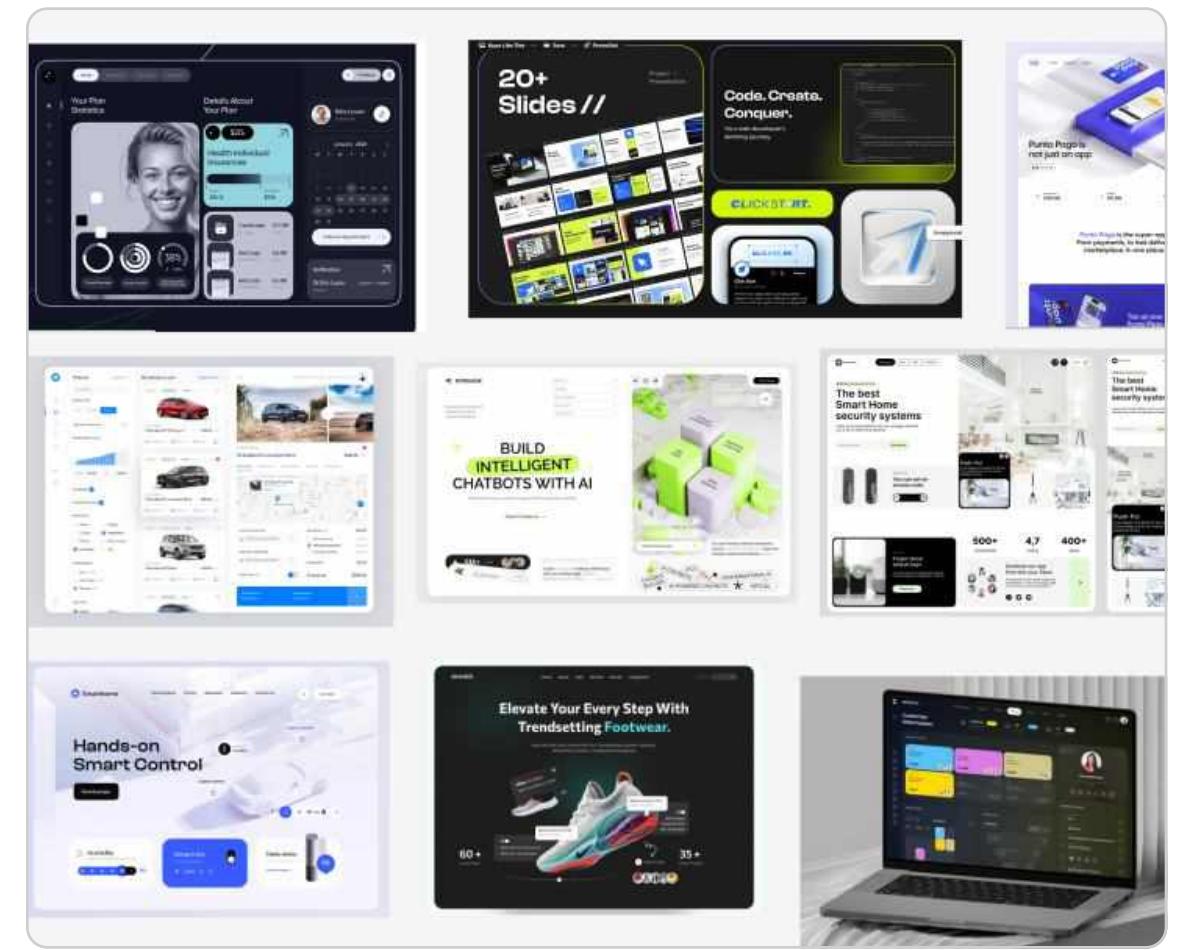
In this step, we create the visual components of your digital product to establish your brand identity and make it stand out. Our team defines the visual direction, layout, and language, builds mockups, and creates interaction designs and graphics.

Deliverables

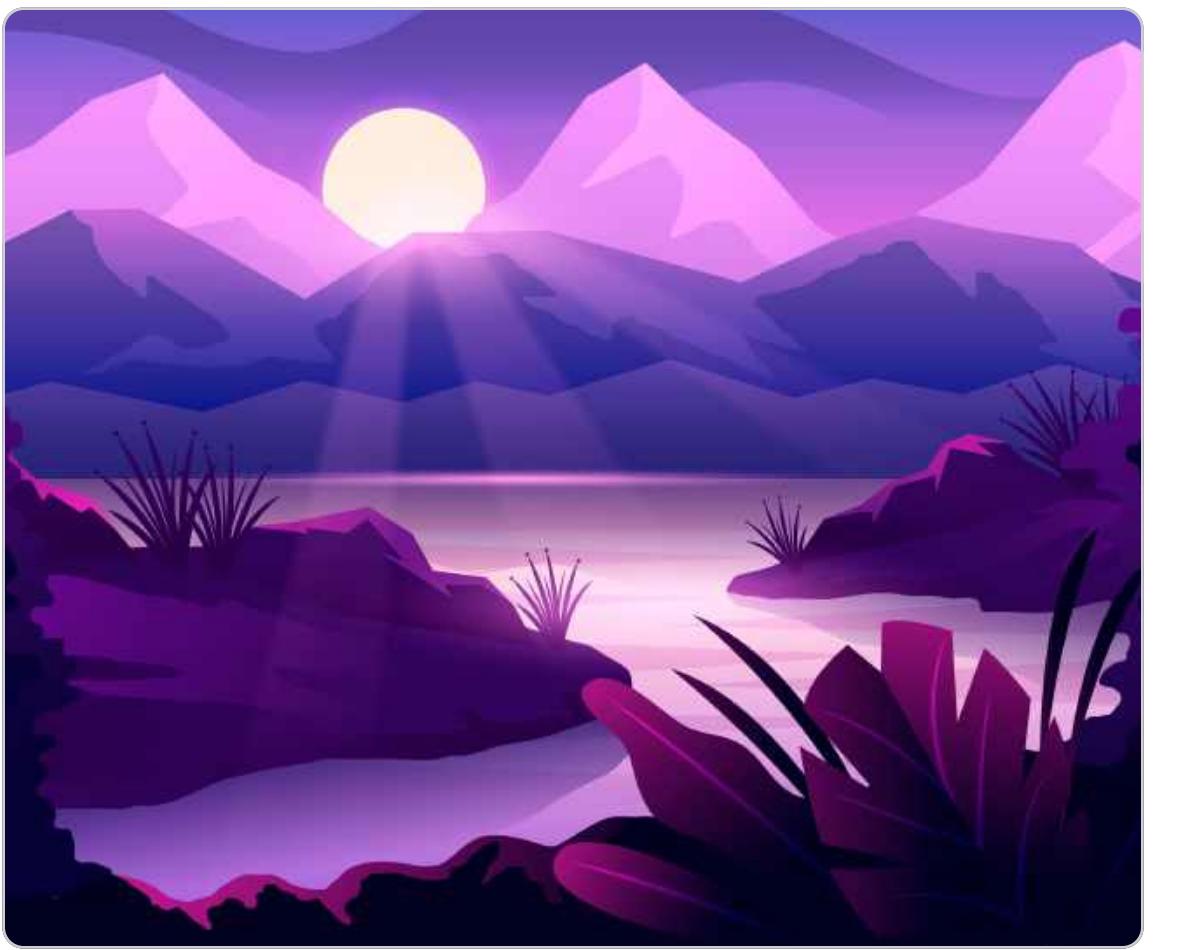


At the end of this step, you get:

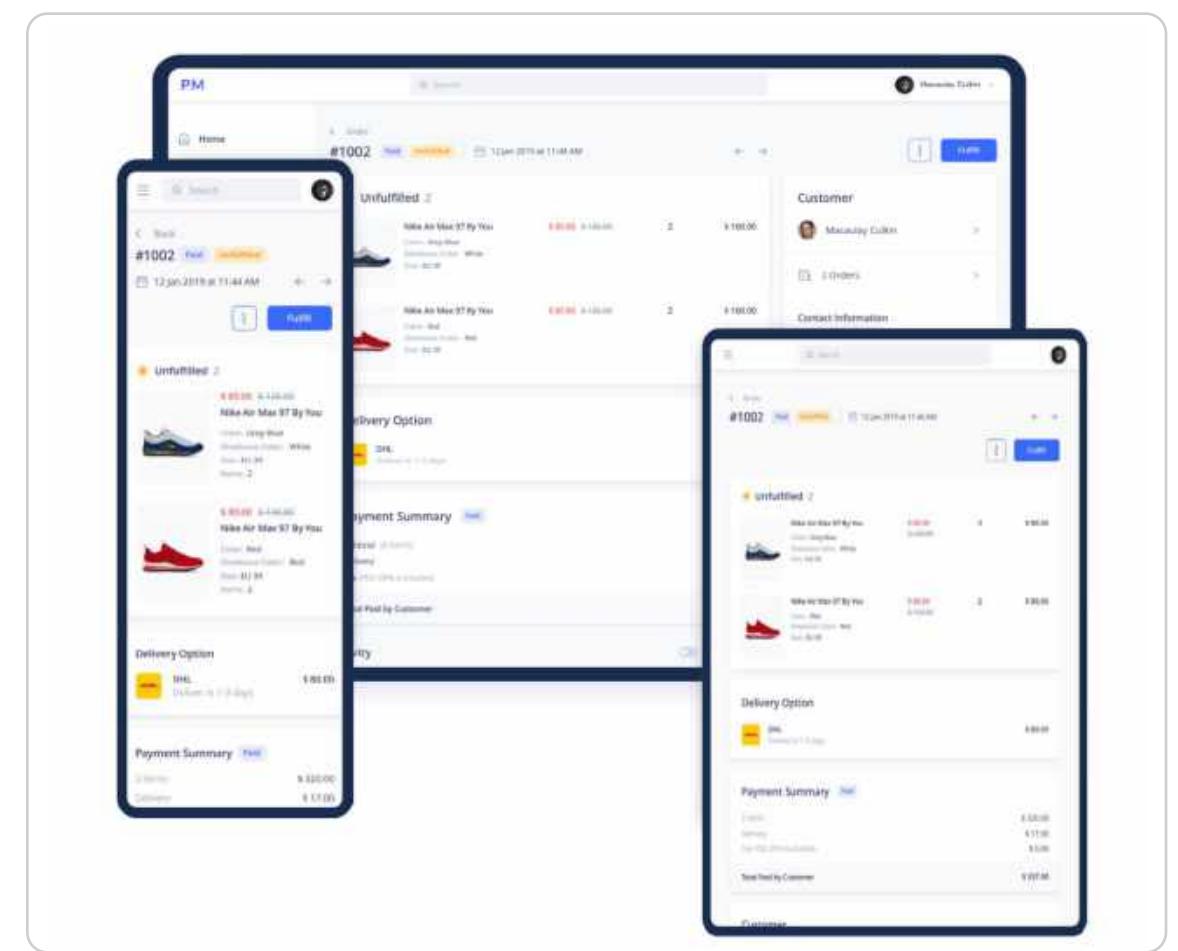
- a moodboard,
- mockups for all resolutions
- interactive prototypes
- UI assets (icons, banners, patterns)
- illustrations, animation and interaction assets
- a design specification (style guide, UI Kit).



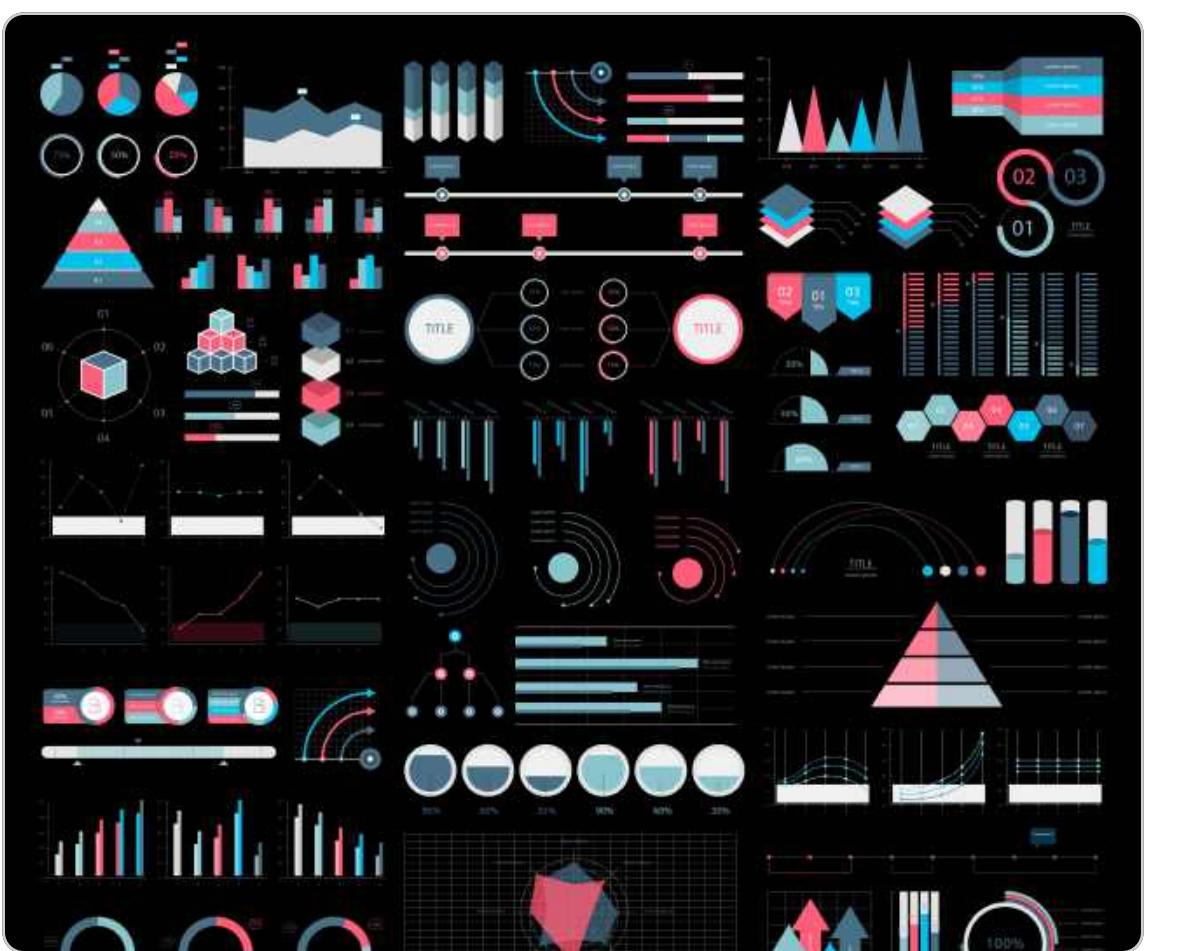
Moodboard



Illustrations



Mockups for all resolutions



UI assets (icons, banners, patterns)

Server-side app development

Stellar Soft web developers build server-side APIs, database architectures, and business logic with REST or GraphQL interfaces for frontend apps. Our engineers follow Extreme Programming practices to deliver high-quality software that can quickly adapt to client requirements and the evolving needs of end users.

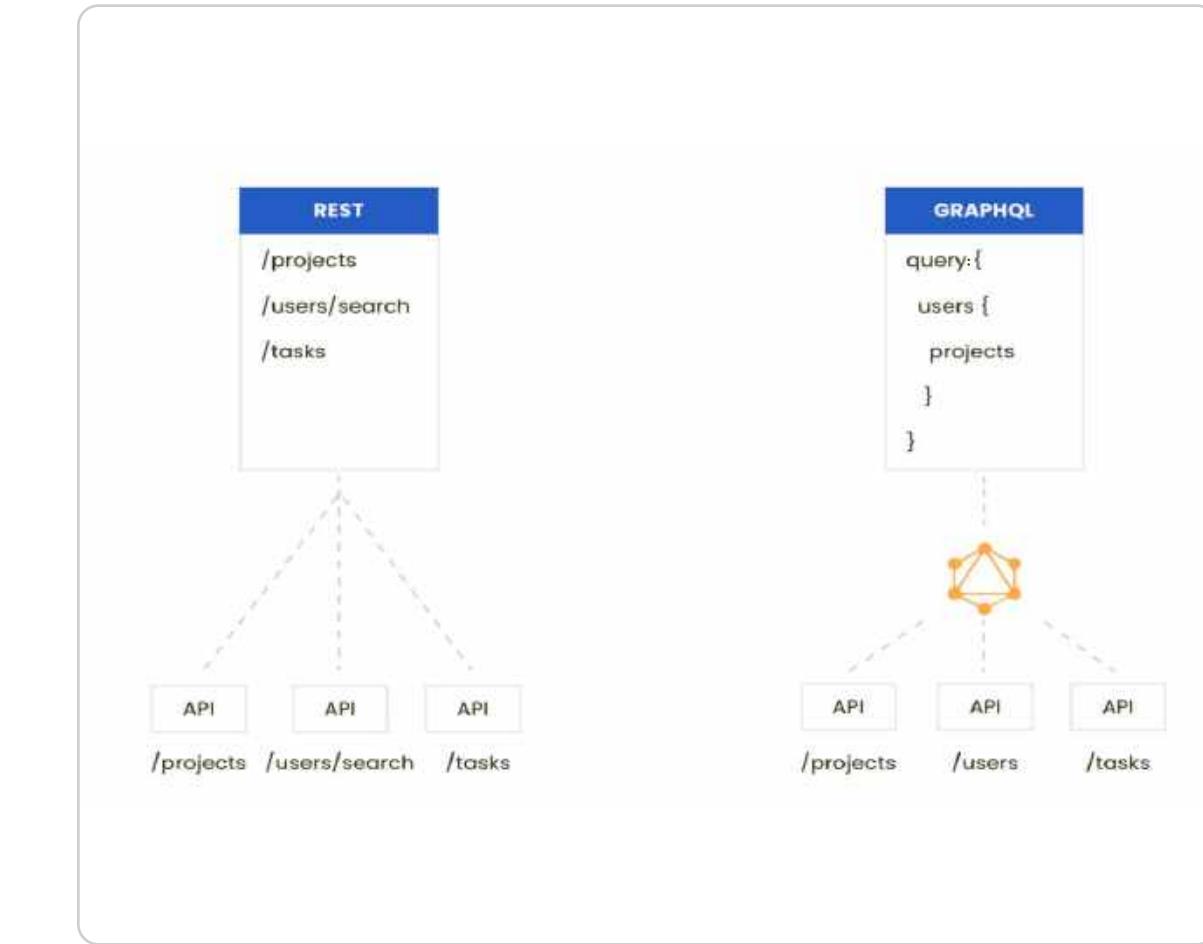
Deliverables



At the end of this step, you will receive:

- the server-side application
- a server-side REST or GraphQL API
- an API documentation
- database architecture design
- source code created according to
- standards, style guides, and design patterns.

Server-side REST or GraphQL API



Database architecture design



API documentation

Classifier Detail			
Train Classifier			
Deploy Classifier			
Create Classifier			
Delete Classifier	Parameter	Default	Description
	sandbox	0	Set this parameter to 1 if request to a custom or public module.
	debug	0	Set this parameter to 1 if request.
	text_list	0	Set this parameter to 1 if request.

Classify (POST)

This endpoint **allows** you to perform the classification of many text samples using only one request to a custom or public module.

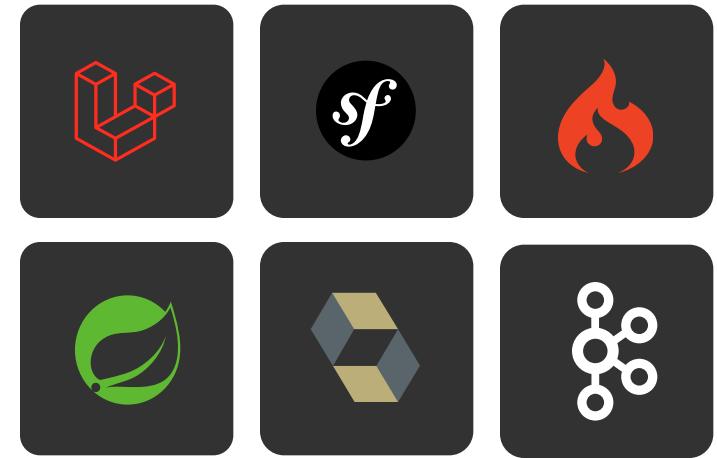
Client-side app development

Once the backend is ready, our frontend developers collaborate closely with UX designers to create the client-side of your web or mobile application. We write code following the latest coding standards for each programming language, framework, and library we use to ensure a robust, responsive client-side.

Deliverables

At the end of this stage, you will receive a client-side web, desktop, or mobile application connected to a server-side API, along with a stable and secure client application architecture and source code created according to standards, style guides, and design patterns.

Back-end



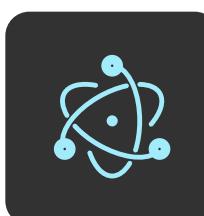
Front-end



Mobile cross-platform front-end



Desktop



Infrastructure management and DevOps

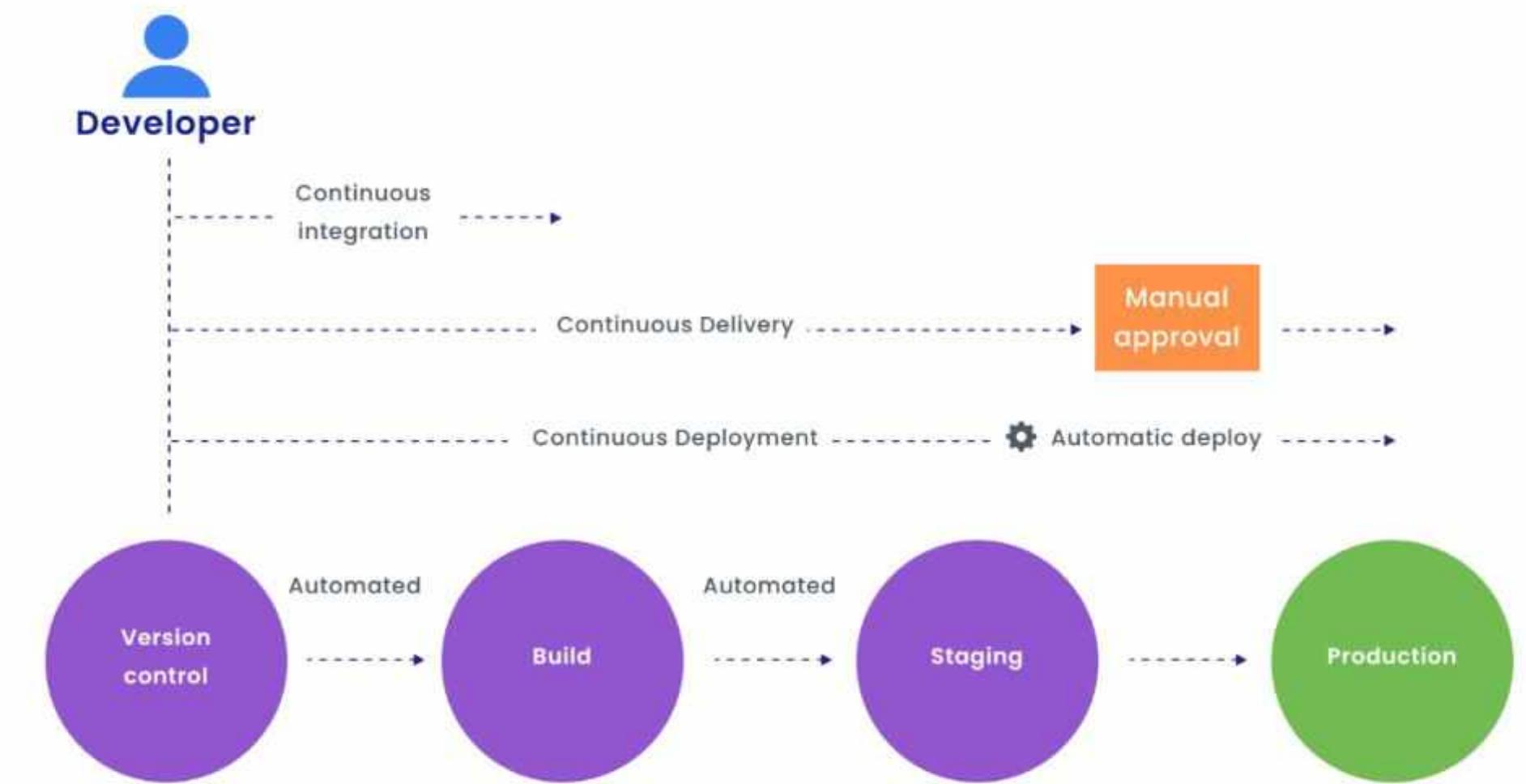
We configure a reliable, scalable, and secure cloud-based infrastructure. Using software configuration tools, we automate infrastructure management to reduce maintenance costs, while performance monitoring services alert our team to errors and crashes.

Deliverables



At the end of this step, you will receive:

- a fully configured AWS architecture
- infrastructure as code with Docker containers
- deployment automation scripts
- continuous integration setup
- production server control
- monitoring tools configuration.



Example of AWS architecture

Quality assurance

This stage ensures there are no blockers, critical, or major bugs in the app. Our team performs the following types of testing:

- Usability
- Functional
- Compatibility
- Performance
- Penetration and security

Our quality assurance department relies on the most versatile and robust testing tools, including Mocha, Jest, RTL, Enzyme, Selenium, Postman, Swagger.

Deliverables



At the end of this step, you get a fully tested working product, checklist, test plan, and functional, performance, penetration tests.

Introduction The main purpose of the given Test Plan is the testing description of a website project "Test Project". This document provides guidance on planned works to be conducted and terms. The goal of the testing website "Test Project" is the thorough verification of the most important features with the typical scripts of its usage. All these features are present in the Feature list. During testing, the different types and approaches will be applied testing. The testing will be based on technical requirements.	Tests to be performed - Smoke testing - Functional and UI testing - Cross-browser and cross-platform testing - Regression testing - Performance testing - Security testing	Environments for WEB OS Version - Windows 10 - Mac OS High Sierra - Ubuntu 18.04 Browsers - Google Chrome - Safari - Mozilla Firefox - Internet Explorer
Entry Criteria - Test documentation is created - Test environment is ready - Server for testing is available.	Exit Criteria - All checks are passed; - All bugs in Jira are fixed or approved by the client that they could be on production (blocker and critical severity defects are fixed); - Planned deliverables are ready; - Project is approved and ready for production by: - QA Engineer - PM / BA	Environments for Mobile Devices - iPhone X - iPhone 8 Plus - iPhone 7 - Samsung Galaxy S8 - Google Pixel 3 OS Version - iOS 11 - iOS 10 - Android 9 - Android 8 Browsers - Google Chrome - Safari
Risks and Contingencies In this section we describe risks on the project which can be presented in the testing process: - lack of personnel resources when testing is to begin - lack of availability of required hardware, software, data or tools - late delivery of the software, hardware or tools		

Example of test plan

Management and support

We set up a reliable, scalable, and secure cloud-based infrastructure. Automation tools manage the infrastructure, reducing maintenance costs, while performance monitoring services alert our team to errors and crashes.

We will discuss and agree with you on the type of support you **would like to receive:**



Permanent support

Permanent support with 60-80-120-160 hours (or more) per month. In this case, we will implement new features according to the agreed development plan or fix any bugs or issues that arise.



Support per request

With this support service, we will handle your project only after receiving a request from you. Before starting, we will calculate the cost and timeline for implementing your request.

- Contacts us



Corporate

Website:

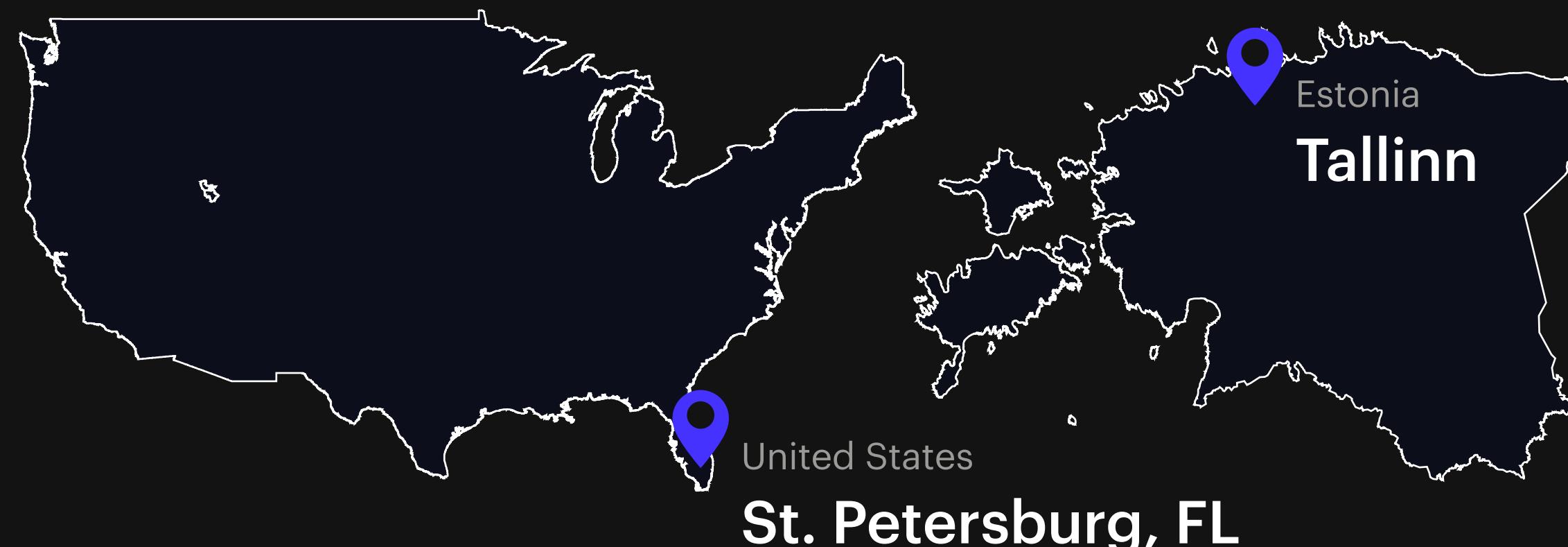
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