codilime
CREATING VALUE

Case study

UI for SDN management software

Our client is the leading networking software and hardware company based in the Bay Area and operating globally. The product we've been helping it develop is an SDN (Software Defined Networking) solution for building high-performance virtual networks, virtual machines and overall cloud infrastructure.

Challenge

The SDN solution requires an intuitive, wizard-based user interface (UI) to manage private and public clouds, physical and virtual workloads and devices. The drawbacks of the previous UI included:

- information overload, making it hard for end-users to understand,

- the lack of a coherent information architecture & style consistency,

- an outdated and non-intuitive layout.

A key project goal was to redesign the UI to be scalable, visually appealing and easy to use while meeting our client's business needs. The other goals needed to be met:

- ensuring component compatibility,

- making the system clear and easy to manage for administrators,

- making the application easily and consistently expandable according to customer requests.

Results & benefits

- **Improved user experience**

- **Unloaded application** - free of unnecessary elements and more user-friendly

- **Significant reduction in the number of user errors** thanks to logical information architecture

- **Easier network administration process**

- **Faster, consistent application custom development** thanks to ownership of the design system being kept and the new style guide being used

- **Time saved** - prototyping of all functionalities enabled testing before implementation

- **Increased competitive advantage** with a more user-friendly product

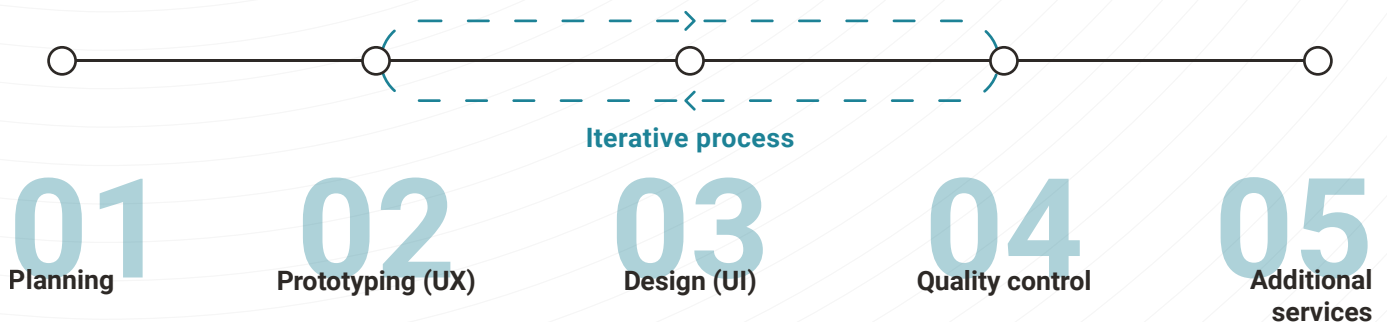- **Increased customer satisfaction and loyalty**

Solution

Our approach to building a user-friendly interface started with competitive and heuristic analysis and interviews with in-house experts. We gathered data about user needs, and defined user stories and journeys. Based on that knowledge, we designed low- and high-fidelity wireframes and created interactive prototypes. Finally, we tested the application with end-users and did design reviews iteratively.

Our team of two UX designers worked closely with front-end and back-end developers to ensure that the new UI was designed and implemented properly. We used the following methodologies:

- Design thinking
- User-centered design
- Scrum

The team took an iterative approach to designing new functionalities and tweaking the existing ones in order to make them more intuitive and user-friendly.

This scheme presents our approach to the UI design process.

Iterative process

01	**02**	**03**	**04**	**05**
Planning	Prototyping (UX)	Design (UI)	Quality control	Additional services

Deliverables included:

- The early visual style concepts, designs of the first proposals of the home screen with basic functionalities
- Visual boards and user flows
- Wireframes (low fidelity prototypes) of the screens based on user needs and the client's specification,
- determined navigation and functionalities
- High fidelity implementation-ready prototypes

About CodiLime

CodiLime helps companies build and transform their network applications by providing expert knowledge and technical teams experienced in building, developing and integrating SND & NFV solutions in a single-, multi- or hybrid-cloud environment.

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Should you need any further information regarding our services, feel free to contact us at contact@codilime.com

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