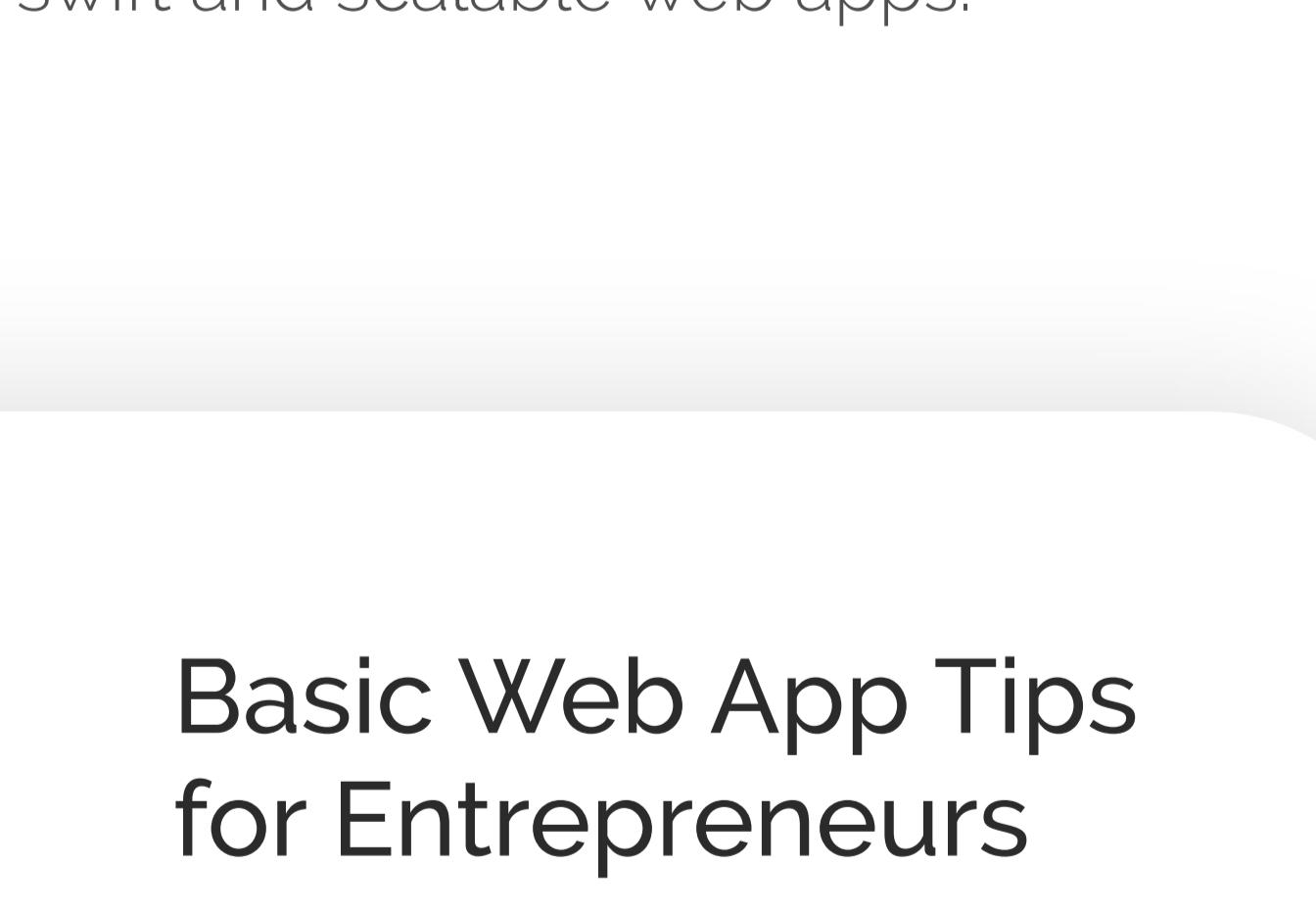
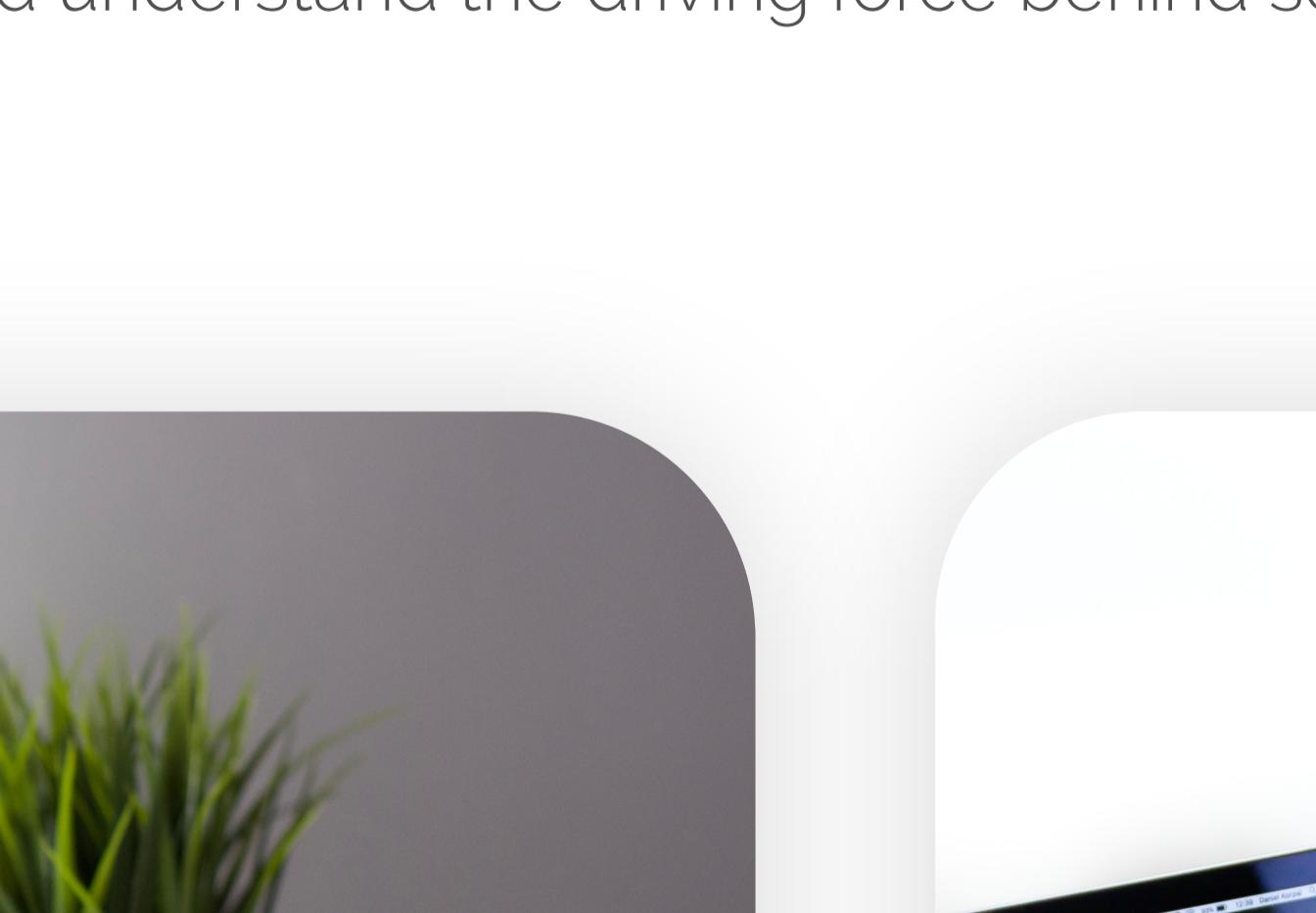
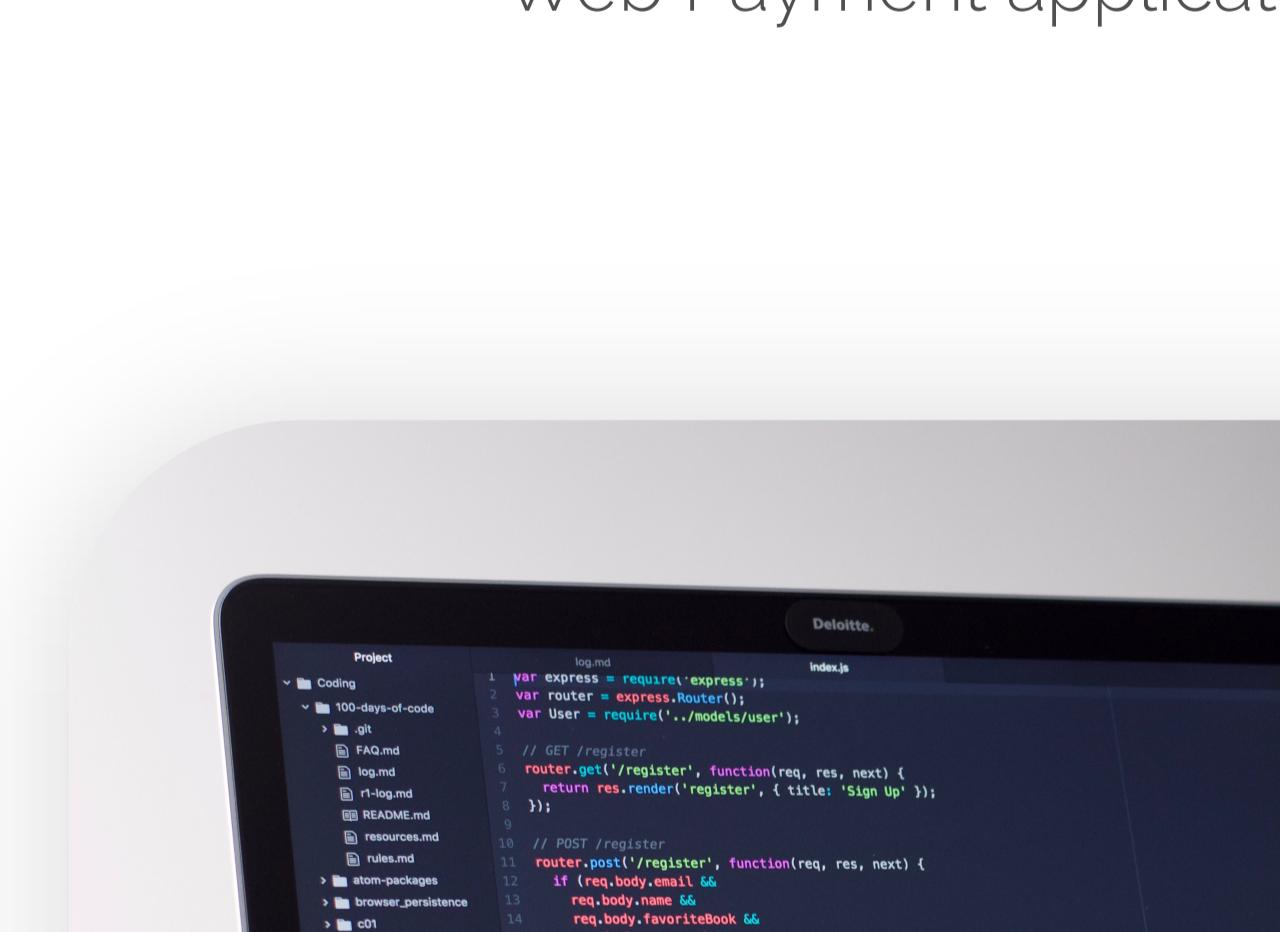
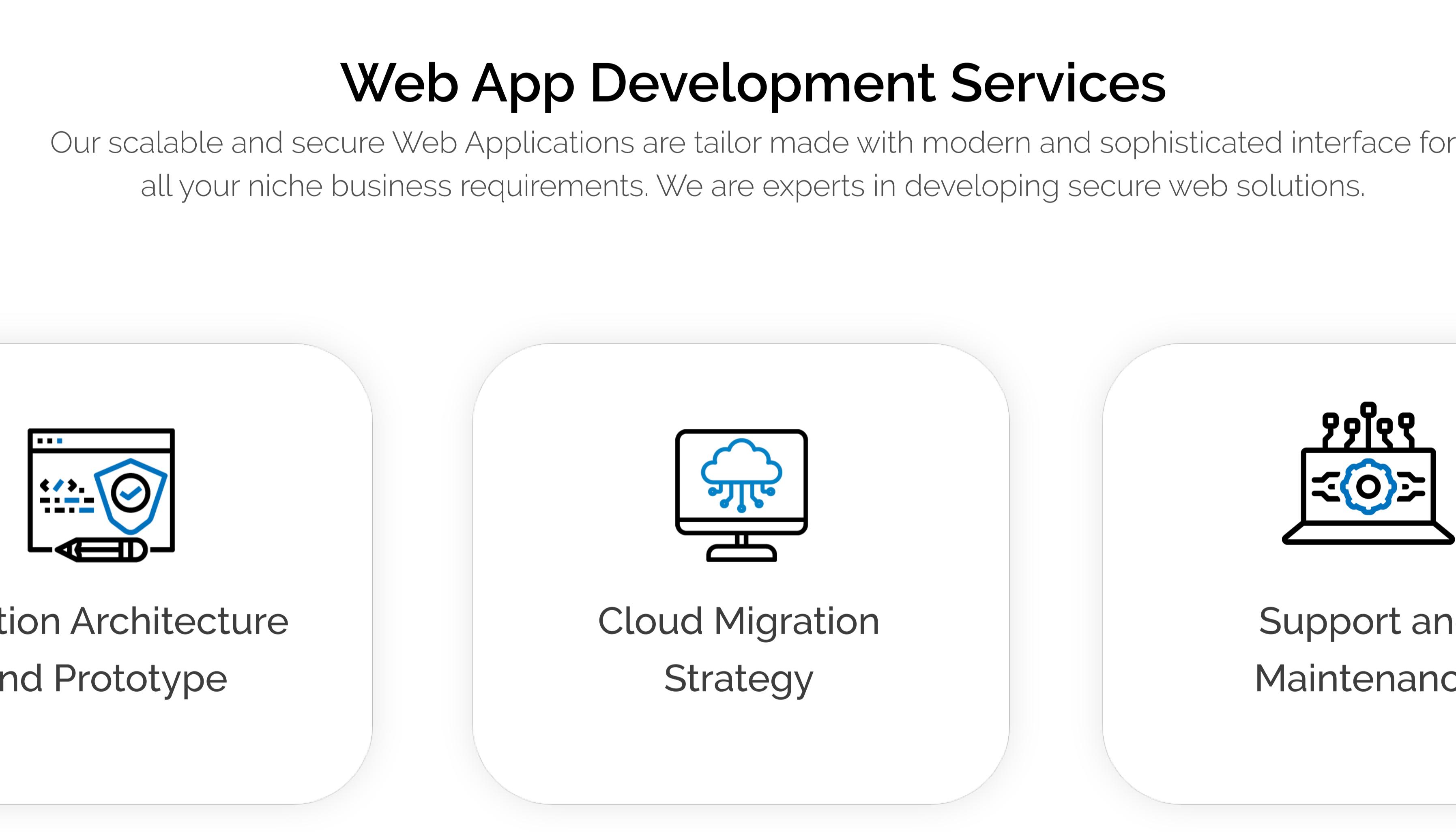
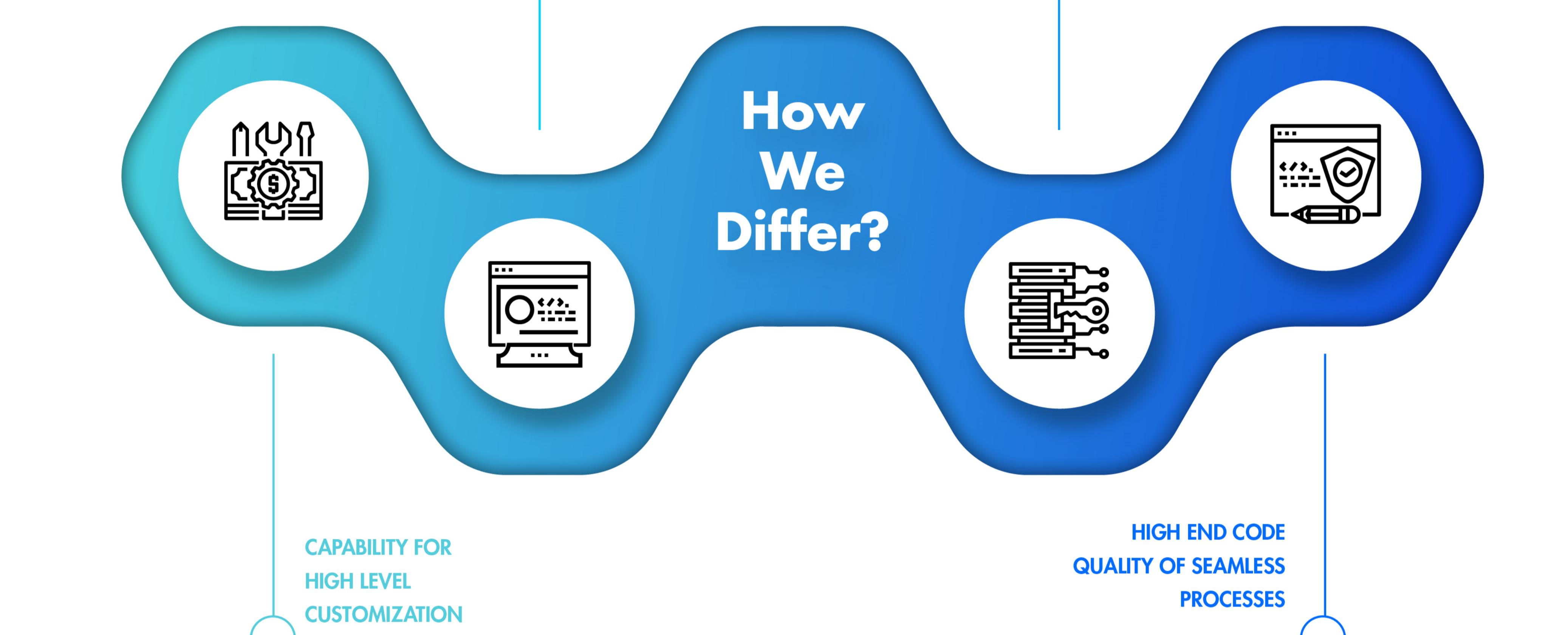
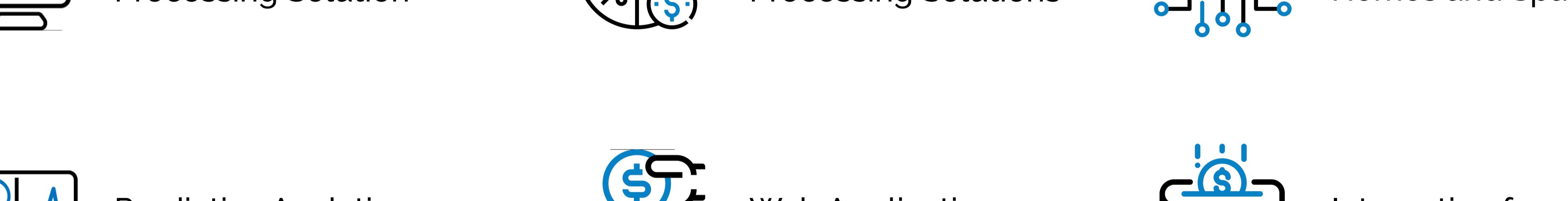


The background of the slide features a collage of images related to software development and technology. It includes a close-up of a person's hands on a keyboard, a laptop screen displaying code, and a smartphone. The overall aesthetic is professional and tech-oriented.

# Frontend Frameworks

# Web Solutions in

# WCF Development



```
> └── FlashcardsExpress      15    req.body.password &&
>   └── freecodecamp_tribute 16        req.body.confirmPassword) {
  └── JavaScript-Authentication 17          // confirm that user typed same password twice
    └── .git                   18            if (req.body.password !== req.body.confirmPassword) {
                                              19
```

# Web App Development

Web app development is the process of creating web-based applications that can be accessed via a web browser or mobile device. It involves several key components:

- Frontend:** The user-facing interface, typically built using technologies like HTML, CSS, and JavaScript.
- Backend:** The server-side logic and databases that handle requests from the frontend.
- Database:** Stores data and provides a way to interact with it through various APIs.
- APIs:** Application Programming Interfaces that allow different parts of the system to communicate.
- Deployment:** The process of putting the application into production environments.

The process of web app development often follows a iterative cycle of planning, design, development, testing, and deployment. Various frameworks and tools are used throughout the process, such as Node.js, React, Angular, Python, Ruby, and Java.



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For more information about the study, please contact Dr. Michael J. Hwang at (319) 356-4550 or via email at [mhwang@uiowa.edu](mailto:mhwang@uiowa.edu).

