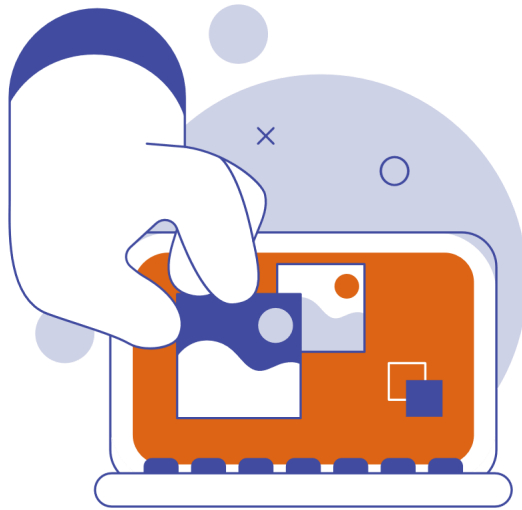


# Ish<sup>®</sup> onCourse<sup>™</sup>

## Product Upgrade Announcement



|             |                                                  |
|-------------|--------------------------------------------------|
| Release No. | 2025.6 onCourse User Experience Upgrade          |
| Name        | Migration from Tapestry to React JS with Next.js |
| Date        | 14/07/2025                                       |
| Version     | 1.0                                              |

## Migration from Tapestry to React JS with Next.js

### Introduction

We're excited to introduce an **optional upgrade for onCourse customers**: the chance to move from our current Tapestry-based interface to a **future-ready, React JS-powered experience**, enhanced with server-side rendering through Next.js.

This upgrade applies exclusively to your **customer-facing website**, leaving your admin interface and internal tools unchanged. It lays the foundation for our **long-term vision**—delivering more features, faster performance, and a more intuitive, user-friendly experience. React JS is one of the world's most trusted and widely adopted front-end libraries. By combining it with Next.js, we're delivering **server-side rendering (SSR), performance optimisation, and a modern development workflow**—ensuring your platform is faster, more scalable, and ready for what's next.

### What to Expect from the React + Next.js Upgrade:

- **Market-leading speed with ultra-fast load times—even during peak traffic—keeping your customers engaged, and conversions high.**
- **Unmatched reliability and enterprise-grade scalability to support your growth today and tomorrow.**
- **Agile, rapid deployment of new features and enhancements so you can respond faster to customer needs and market changes.**
- **Future-ready compatibility for updates, integrations, and security standards—protecting your investment and ensuring smooth evolution as your business grows.**

This optional upgrade is available to current customers for an additional fee. It's ideal for organisations looking to invest in a more advanced, future-proof onCourse experience. Below you'll find a detailed benefits overview, FAQs, a comparison table, and a glossary of key terms.

If you're interested in exploring the upgrade and want help deciding if it's right for your organisation, our team is here to answer questions and guide you through next steps.

Please email us at [ish onCourse](#) or submit a support ticket via our [Support Portal](#).

Kindest regards,

Marc Flior, Managing Director

## Benefits to Ish onCourse Customers of Migrating from Tapestry to React JS with Next.js

Migrating the onCourse platform from Apache Tapestry to React JS with Next.js provides several key advantages focused on user experience, performance, scalability, and long-term sustainability.

### Enhanced Performance and Speed

- React's virtual DOM allows fast, efficient UI updates. When paired with Next.js, we deliver server-side rendered pages which improves initial page load speed and overall responsiveness.
- Customers will experience smoother interactions, quicker page transitions, and reduced latency, specially during peak usage or when accessing complex features.

### Greater Reliability and Scalability

- React's modular architecture is ideal for scalable systems, and Next.js enhances that with built-in performance tools, routing, and static optimizations.
- As your user base grows or your application becomes more complex, this new setup ensures reliability without a decline in performance.

### Faster Feature Delivery and Updates

- Reusable React components, managed through Next.js pages and layouts, enable faster development cycles. This reduces time-to-market for new features and bug fixes.
- The clear structure of server-rendered React via Next.js also simplifies maintenance, meaning fewer disruptions to your users.

### Cross-Platform Consistency

- React and Next.js' flexibility supports the development of cross-platform applications, ensuring that customers have a uniform experience whether they're using onCourse on the web or mobile device

## **Future-Proofing and Security**

- Next.js provides a robust environment for server-side React with built-in security features such as:
  - Server-side rendering for protected content
  - Automatic static optimization
  - Enhanced caching and route handling
- Secure API endpoints through serverless functions or external services
- By adopting Next.js, onCourse is well-positioned to keep up with modern web standards, security practices, and scalability needs, ensuring that our platform remains a robust and secure solution for the long term.

## **Community and Ecosystem Advantages**

- React's global developer ecosystem, enhanced with the Next.js toolkit, means faster innovation, broader third-party integrations, and faster troubleshooting. Your investment is backed by some of the most active communities in software development.

## **SEO and Accessibility Improvements**

- Server-side rendering enabled by Next.js makes content easier to index by search engines, improving search engine optimization (SEO).
- This also benefits accessibility: server-rendered HTML is more compatible with assistive technologies, ensuring content is more usable by all customer segments.

In summary, migrating Oncourse from Tapestry to React JS with Next.js ensures a future-proof platform that delivers improved performance, reliability, and security. While the user interface will remain consistent, these upgrades will provide long-term benefits in terms of speed, scalability, and the ability to quickly adapt to new features, integrations, and security standards.

## Frequently Asked Questions

| Question                                                      | Answer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>What is this upgrade about?</b>                            | We're offering an optional upgrade for onCourse customers to move their customer-facing website from our existing Apache Tapestry interface to a modern React JS and Next.js-powered experience. This will deliver faster, more reliable, and future-ready performance without changing your admin or internal tools.                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Why are you moving to React JS with Next.js?</b>           | <p>React JS is one of the world's most widely adopted front-end frameworks. By combining it with Next.js, we can offer:</p> <ul style="list-style-type: none"> <li>• Server-side rendering (SSR) for faster load times and SEO</li> <li>• Improved performance and responsiveness</li> <li>• Modern, flexible architecture to support your growth</li> </ul>                                                                                                                                                                                                                                                                                                                                                                   |
| <b>What are the main benefits for my organisation?</b>        | <ol style="list-style-type: none"> <li>1) Market-leading speed with ultra-fast load times—even during high-traffic periods—to keep customers engaged and conversions high.</li> <li>2) Unmatched reliability with enterprise-grade scalability, so your platform grows with you.</li> <li>3) Agile, rapid deployment of new features and enhancements, letting you respond quickly to market and customer needs.</li> <li>4) Future-ready compatibility with updates, integrations, and security standards—protecting your investment over the long term.</li> <li>5) Improved SEO and accessibility thanks to server-side rendering.</li> <li>6) Consistent, modern user experience across web and mobile devices.</li> </ol> |
| <b>How will this impact my customers?</b>                     | Your customers will see faster load times, smoother interactions, and a more modern, intuitive interface. Even during peak usage, your website will remain responsive, reliable, and scalable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Will this affect my admin interface or internal tools?</b> | No. This upgrade applies only to the customer-facing website. Your admin panel and internal workflows remain unchanged.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| Question                                                | Answer                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Is the upgrade mandatory?</b>                        | No, this upgrade is entirely optional. It's designed for organisations that want to invest in a more advanced, future-ready user experience.                                                                                                                                                                                       |
| <b>What does the upgrade cost?</b>                      | The upgrade is available for an additional fee. Pricing depends on your specific requirements. Contact us to discuss your needs and get a tailored quote.                                                                                                                                                                          |
| <b>How does it improve performance?</b>                 | <p>React's virtual DOM enables highly efficient UI updates. Combined with Next.js's server-side rendering, your website will:</p> <ul style="list-style-type: none"> <li>• Load faster, even for complex pages</li> <li>• Perform better during high-traffic events</li> <li>• Deliver a consistently smooth experience</li> </ul> |
| <b>How does it improve scalability and reliability?</b> | <p>The upgrade uses a modular, component-based architecture, making it easier to:</p> <ul style="list-style-type: none"> <li>• Scale with your growing user base</li> <li>• Maintain high performance without downtime</li> <li>• Integrate new features or changes with minimal disruption</li> </ul>                             |
| <b>How does it help deliver features faster?</b>        | <p>Reusable components and a modern development workflow mean:</p> <ul style="list-style-type: none"> <li>• Faster development cycles</li> <li>• Faster bug fixes</li> <li>• Quicker rollout of new features and enhancements</li> </ul>                                                                                           |
| <b>Is it secure?</b>                                    | <p>Yes. Next.js comes with built-in security best practices, including:</p> <ul style="list-style-type: none"> <li>• Secure server-side rendering for sensitive content</li> <li>• Automatic static optimization</li> <li>• Enhanced caching and route handling</li> <li>• Secure API endpoints</li> </ul>                         |

| Question                                          | Answer                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>How does it improve SEO and accessibility?</b> | <ul style="list-style-type: none"> <li>• Server-side rendering makes your content easier to index by search engines, improving discoverability.</li> <li>• Server-rendered HTML is more compatible with assistive technologies, making your site more accessible to all users.</li> </ul>  |
| <b>What's the long-term benefit?</b>              | <p>By adopting React and Next.js, you're investing in a future-proof platform that:</p> <ul style="list-style-type: none"> <li>• Stays compatible with modern web standards</li> <li>• Makes integrations and security updates easier</li> <li>• Supports growth without rework</li> </ul> |
| <b>How can I get started?</b>                     | <p>Our team is ready to help you decide if the upgrade is right for you and guide you through next steps. Contact us today to learn more or to begin planning your migration. Contact us by email at <a href="#">ish onCourse</a> or log a support ticket at <a href="#">Support</a>.</p>  |

## Technical Overview - Tapestry vs React with Next.js

| Category                                 | Apache Tapestry                                      | React JS w/ Next.js                                            | End User Benefit                                  |
|------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------|
| <b>Performance &amp; Speed</b>           | Server-side rendering with slower UI updates         | Virtual DOM and optimized rendering                            | Faster load times, smoother interactions          |
| <b>User Experience</b>                   | Traditional page-based UI                            | Modern, interactive, component-based UI                        | More intuitive and dynamic interfaces             |
| <b>Scalability &amp; Maintainability</b> | Monolithic architecture, harder to scale             | Modular, component-based architecture                          | Easier updates, better reliability                |
| <b>Development Speed</b>                 | Slower development cycles, fewer reusable components | Fast development with reusable components                      | Quicker feature delivery and bug fixes            |
| <b>Cross-Platform Support</b>            | Web-only, no mobile support                          | Web and supports Next.js for improved web and SSR capabilities | Consistent experience across web and mobile       |
| <b>Modern Standards Compatibility</b>    | Outdated, less community support                     | Actively maintained, aligns with latest web standards          | Future-proofed and secure                         |
| <b>Community &amp; Ecosystem</b>         | Small, niche community                               | Massive global community, rich ecosystem                       | Faster innovation, more integrations              |
| <b>Testing &amp; QA</b>                  | Limited testing tools                                | Robust testing with Jest, RTL, Cypress                         | Fewer bugs, more reliable experience              |
| <b>SEO &amp; Accessibility</b>           | Limited SEO options                                  | SSR support with frameworks like Next.js                       | Better discoverability and accessibility          |
| <b>Architecture Flexibility</b>          | Tight coupling of frontend/backend                   | Decoupled frontend with API integration                        | Faster iterations, more flexible feature delivery |
| <b>PWA Capabilities</b>                  | Not supported                                        | Can build Progressive Web Apps                                 | Mobile-friendly offline experience                |
| <b>Talent Availability</b>               | Limited Tapestry developers                          | Abundant React developers worldwide                            | Faster hiring, lower training overhead            |
| <b>Third-Party Integration</b>           | Manual and harder to integrate                       | Easy integration with analytics, SDKs, chat, etc.              | Enhanced, personalized user experience            |



## Glossary of Terms

| Terms                                          | Definition                                                                                                                                                               |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Server-side rendering (SSR)</b>             | The website is built on the server before it shows up in your browser. This often results in slower updates when you interact with the page, but is used for better SEO. |
| <b>Virtual DOM</b>                             | A smarter way to update web pages quickly by only changing what's needed behind the scenes.                                                                              |
| <b>Component-based UI</b>                      | The website is built from small, reusable building blocks instead of one big structure.                                                                                  |
| <b>Monolithic architecture</b>                 | Everything is tightly connected, which makes it harder to update or scale the system.                                                                                    |
| <b>Modular architecture</b>                    | The app is built in separate parts, which makes it easier to update and scale over time.                                                                                 |
| <b>Reusable components</b>                     | Pieces of code that can be used multiple times, speeding up development.                                                                                                 |
| <b>Web standards</b>                           | Rules that ensure websites work well, look good, and stay secure across all browsers and devices.                                                                        |
| <b>Community &amp; ecosystem</b>               | The group of developers using a technology and all the tools, libraries, and support available around it.                                                                |
| <b>Testing tools</b>                           | Software that helps developers catch bugs and errors before users see them. (Examples: Jest, Cypress)                                                                    |
| <b>SEO (Search Engine Optimization)</b>        | Techniques that help a website rank higher on search engines like Google.                                                                                                |
| <b>Accessibility</b>                           | Making websites usable for everyone, including people with disabilities.                                                                                                 |
| <b>API (Application Programming Interface)</b> | A way for different apps or systems to talk to each other, like a digital translator or waiter.                                                                          |
| <b>Progressive Web Apps (PWAs)</b>             | Websites that act like mobile apps, where they can work offline, send notifications, and load fast.                                                                      |
| <b>SDKs (Software Development Kits)</b>        | Pre-built tools that make it easier to add features like chat, payments, or analytics.                                                                                   |
| <b>Talent availability</b>                     | How easy (or hard) it is to find developers who know how to work with a specific technology.                                                                             |