



Welcome to the **Co**Grammar Extension: Deployment

The session will start shortly...

Questions? Drop them in the chat. We'll have dedicated moderators answering questions.



CoGrammar Presentation

June 2024

Full Stack Web Development Session Housekeeping

- The use of disrespectful language is prohibited in the questions, this is a supportive, learning environment for all - please engage accordingly.
(Fundamental British Values: Mutual Respect and Tolerance)
- No question is daft or silly - **ask them!**
- There are **Q&A sessions** midway and at the end of the session, should you wish to ask any follow-up questions. Moderators are going to be answering questions as the session progresses as well.
- If you have any questions outside of this lecture, or that are not answered during this lecture, please do submit these for upcoming Academic Sessions. You can submit these questions here: [Questions](#)

Full Stack Web Development Session Housekeeping cont.

- For all **non-academic questions**, please submit a query:
www.hyperiondev.com/support
- Report a **safeguarding** incident:
www.hyperiondev.com/safeguardreporting
- We would love your **feedback** on lectures: [Feedback on Lectures](#)

Skills Bootcamp

8-Week Progression Overview

Fulfil 4 Criteria to Graduation

✓ Criterion 1: Initial Requirements

Timeframe: First 2 Weeks

Guided Learning Hours (GLH):

Minimum of 15 hours

Task Completion: First four tasks

Due Date: 24 March 2024

✓ Criterion 2: Mid-Course Progress

60 Guided Learning Hours

Data Science - **13 tasks**

Software Engineering - **13 tasks**

Web Development - **13 tasks**

Due Date: 28 April 2024

Skills Bootcamp Progression Overview

✓ Criterion 3: Course Progress

Completion: All mandatory tasks,
including Build Your Brand and
resubmissions by study period end
Interview Invitation: Within 4 weeks
post-course
Guided Learning Hours: Minimum of
112 hours by support end date
(10.5 hours average, each week)

✓ Criterion 4: Demonstrating Employability

Final Job or Apprenticeship
Outcome: Document within 12
weeks post-graduation
Relevance: Progression to
employment or related
opportunity

Learning Objectives

- ❖ Understand the Deployment Process
- ❖ Understand Vercel
- ❖ Deploy Applications Using Vercel
- ❖ Manage and Update Deployed Applications on Vercel

Introduction to Deployment and Hosting

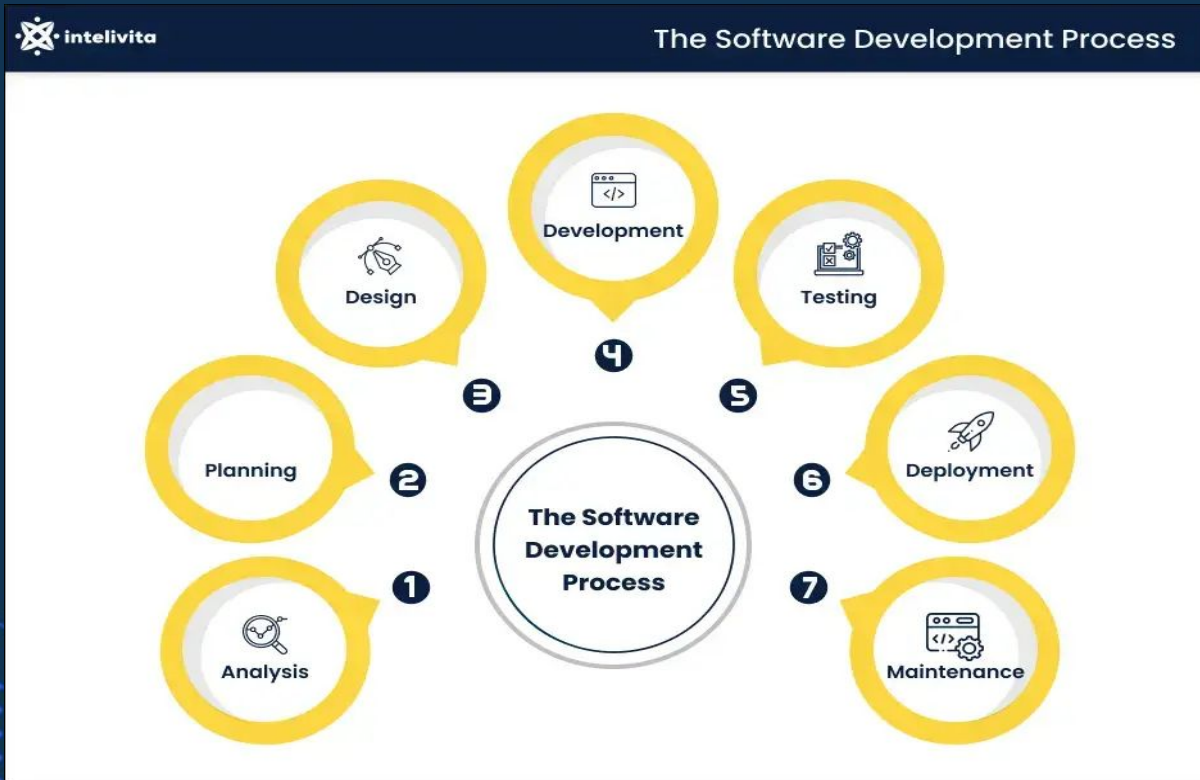




Overview of Web Deployment

- Deployment involves publishing a website or application on the internet so that it is accessible to users globally.
- Software deployment is crucial as it enables the delivery of applications and updates from developers to users, allowing development teams to quickly adapt to customer needs, enhance satisfaction, and capitalize on economic opportunities through innovative delivery paradigms and continuous updates.

The Software Development Process



Introduction to Vercel and Netlify

- Vercel and Netlify are cloud-based hosting services that cater to modern web applications by providing robust solutions for deploying, hosting, and scaling both static and dynamic sites.
- They simplify the deployment process and make it easier for developers to bring their applications to life quickly.
- Key Features:
 - ◆ Continuous Deployment
 - ◆ Free HTTPS: Encrypting data transmitted to and from your website.
 - ◆ Custom Domain Support
 - ◆ Preview Deployments

Why Vercel and Netlify for React

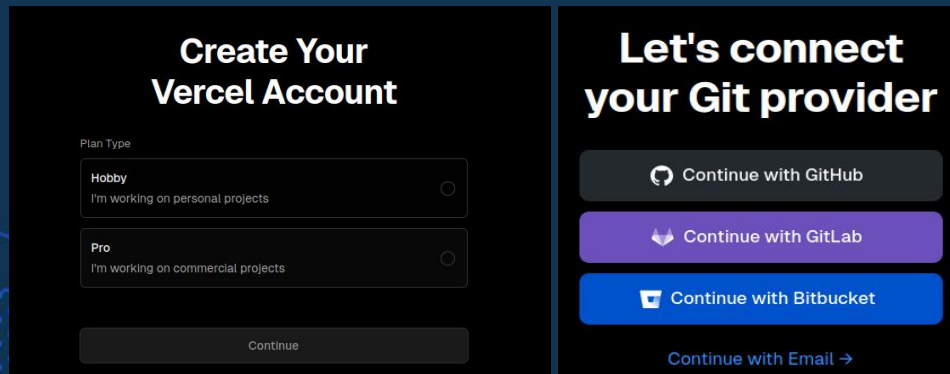
- Both platforms are optimized for single-page applications (SPAs), like those built with React. They handle SPA routing elegantly by serving the same `index.html` file path for navigation routes defined in React Router.
- Upon deployment, any updates trigger instant cache invalidation to ensure that users see the latest version of the application without delay.
- Both Vercel and Netlify reduce the complexity of deploying a React application. Their platforms detect that you are deploying a React app and automatically configure settings to optimize performance.

Deploying with Vercel



Setting Up a Vercel Account

- Visit Vercel's website and click on the "Sign Up" button.
 - <https://vercel.com>
- You can sign up using GitHub, GitLab, Bitbucket, or an email address.
- Follow the prompts to complete the account setup, including verifying your email if necessary.



The screenshot shows two side-by-side panels from the Vercel website. The left panel, titled "Create Your Vercel Account", has a "Plan Type" section with two radio button options: "Hobby" (with the subtext "I'm working on personal projects") and "Pro" (with the subtext "I'm working on commercial projects"). A "Continue" button is at the bottom. The right panel, titled "Let's connect your Git provider", features three buttons: "Continue with GitHub", "Continue with GitLab", and "Continue with Bitbucket". A link for "Continue with Email" is at the bottom.

Connecting Your Repository

- Have a repository with a React project ready on GitHub, GitLab, or Bitbucket.
 1. From the Vercel dashboard, select "New Project".
 2. Vercel will prompt you to connect a Git repository. Choose your GitHub, GitLab, or Bitbucket account.
 3. Authorize Vercel to access your repositories.
 4. Select the repository where your React project is located.

Deployment Configuration

- Build Settings:
 - Navigate to your project settings in Vercel and set the build command as ``npm run build`` and the output directory as ``build/``.
 - Customize additional settings as needed based on your project requirements.
- Environment Variables:
 - Go to the "Environment Variables" section in your project settings.
 - Add necessary variables like API keys or other sensitive information, ensuring they are secure and not included in your codebase.

Automated Deploys

- Operation:
 - Once your repository is connected and configured, any push to your main branch (or the branch specified) triggers a new deployment automatically.
 - Vercel builds your project and deploys the latest version, ensuring your live application is always up-to-date.
- Advantages:
 - Continuous deployment keeps your application current without manual intervention.
 - Reduces the chances of human error during deployment.
 - Enables faster iteration cycles and immediate feedback on changes.

Let's Breathe!

Let's take a small break
before moving on to
the next topic.



Live Demonstration

1. Git & GitHub
Crash Course
2. Deploying to
Vercel





Git Cheat Sheet

★ <https://education.github.com/git-cheat-sheet-education.pdf>

Questions and Answers



Thank you for attending



Department
for Education

CoGrammar

