INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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Grunt Course

Introduction to Grunt

- What is Grunt?
- Why Use Grunt?
- Introduction to Task Runners
- Grunt vs. Other Task Runners

Getting Started with Grunt

- Installing Grunt
- Setting up a Grunt Project
- Gruntfile.js Configuration
- Running Grunt Tasks

Grunt Tasks and Plugins

- Understanding Grunt Tasks
- Exploring Grunt Plugins
- Installing and Configuring Plugins
- Popular Grunt Plugins for JavaScript Projects

Configuring Grunt Tasks

- Task Configuration Options
- Task Targets and Files

- Configuring Task Options
- Task Dependencies and Ordering

File and Folder Operations

- Copying Files
- Concatenating Files
- Minifying and Uglifying Scripts
- Compiling Preprocessors (e.g., Sass, Less)

Linting and Code Quality

- Introduction to Linting
- Configuring ESLint Tasks
- Integrating with JSHint
- Code Formatting with Prettier

Automating Testing

- Running Tests with Grunt
- Integrating Testing Frameworks (e.g., Mocha, Jasmine)
- Configuring Test Tasks
- Generating Test Reports

Building and Deploying Applications

- Building Distribution Packages
- Versioning Builds
- Deploying Applications
- Continuous Integration with Grunt

Task Customization and Writing Custom Tasks

- Creating Custom Grunt Tasks
- Utilizing Existing npm Modules as Tasks
- Task Composition and Modularity

- Best Practices for Writing Grunt Tasks

Performance Optimization

- Understanding Build Performance
- Profiling Grunt Tasks
- Caching and Incremental Builds
- Parallelizing Tasks

Integrating with Other Tools and Workflows

- Integrating Grunt with Build Tools (e.g., Webpack, Gulp)
- Using Grunt with Task Runners in CI/CD Pipelines
- Interacting with Version Control Systems

Error Handling and Debugging

- Handling Errors in Grunt Tasks
- Debugging Gruntfile.js
- Troubleshooting Common Issues
- Error Handling Best Practices

Grunt and Modern Web Development

- Automating Modern Web Development Workflows
- Grunt for Frontend Development
- Grunt for Backend Development
- Task Runner Best Practices in Modern Development

Real-world Applications and Case Studies

- Case Studies of Grunt Usage in Industry
- Real-world Examples of Grunt Automation
- Project Implementation Examples

Best Practices and Tips

- Grunt Best Practices
- Common Pitfalls to Avoid
- Code Organization Strategies
- Performance Optimization Tips

Community and Resources

- Grunt Community Resources
- Online Forums and Communities
- Recommended Books and Tutorials
- Continuing Education Opportunities