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| Week Number and Date | Monday | Friday | Evaluations Due |
| Week 5  June 3 | June 3  **Key Concepts**   * Describe what is Node.js and NPM * Explain what is Express.js * Explain how Node.js and Express.js work together * Discuss how Node.js and Express.js are used for web development   **Required Preparation**   * Read Chapter 1 - 2 in the slides and/or e-text.   **Assessments Assigned**   * None   Covering content from Week 1 | June 7  **Key Concepts**   * Discuss how to setup Node.js project * Explain directory structure within the project * Explain how to add custom html pages to the project * Explain what Routing is * Explain how to create page routes and link them to html pages * Discuss how to navigate between different pages   **Required Preparation**   * Read Chapter 3 in the slides and/or e-text.   **Assessments Assigned**   * Assignment 1 due week 6 (June 14)   Covering content from Week 2 |  |
| Week 6  June 10 | June 10  **Key Concepts**   * Discuss issues with fixed static pages * Explain how those issues can be fixed using dynamic web pages * Explain what templating engines is? * Discuss how to use templating engines   **Required Preparation**   * Read Chapter 4 in the slides and/or e-text.   **Assessments Assigned**   * None   Covering content from Week 3 | June 14  **Key Concepts**   * Discuss non-relational database * Discuss json schema * Discuss architecture of mongodb * Create mongodb account on mongo atlas * Explain what is Mongoose * Define data model * Use mongoose to perform CRUD operation   **Required Preparation**   * Read Chapter 5-6 & 15 in the slides and/or e-text.   **Assessments Assigned**   * Assignment 2 due week 7 (June 21)   Covering content from Week 4 | Assignment 1 due June 14 |
| Week 7  June 17 | June 17  **Key Concepts**   * Discuss the use of express-fileupload package * Understand how to upload image using express * Explain what is middleware * Explain how to create custom middleware * Explore how to use custom middleware for form validation   **Required Preparation**   * Read Chapter 7 - 8 in the slides and/or e-text.   **Assessments Assigned**   * None   Covering content from Week 5 | June 21  **Key Concepts**   * Discuss the model-view-controller pattern * Understand how to refactor the code in controller * Explain how to encrypt user data * Explain how to use mongoose validation to validate user data   **Required Preparation**   * Read Chapter 9 -10 in the slides and/or e-text.   **Assessments Assigned**   * Assignment 3 due week 10 (July 08)   Covering content from Week 6 | Assignment 2 due June ~~21~~  23 |
| Week 8  June 24 – 30 | Break | Break |  |
| Week 9  July 01 | July 01  Civic Holiday | July 5  **Key Concepts**   * Discuss what is authentication * Understand what user session is * Explain how to create user session and attach to the request * Explain how to authenticate middleware   **Required Preparation**   * Read Chapter 11 in the slides and/or e-text.   **Assessments Assigned**   * None   Covering content from Week 9 |  |
| Week 10  July 08 | July 08  MIDTERM | July 12  **Key Concepts**   * Discuss what is validation errors * Understand why errors occur and how to validate form * Explain how to log the errors * Explain how to display errors in view   **Required Preparation**   * Read Chapter 12 in the slides and/or e-text.   **Assessments Assigned**   * Assignment 4 due week 12 (July 22)   Covering content from Week 10 | Assignment 3 due July 08 |
| Week 11  July 15 | July 15  **Key Concepts**   * Discuss how to link multiple collections * Explain how to fetch user data from blogpost data * Explain what is WYSIWYG editor * Embed WYSIWYG in app   **Required Preparation**   * Read Chapter 13-14 in the slides and/or e-text.   **Assessments Assigned**   * None | July 19 |  |
| Week 12  July 22 | July 22  **Key Concepts**   * Discuss how to deploy web application   **Required Preparation**   * Read Chapter 16 in the slides and/or e-text   **Assessments Assigned**   * Group Project due week 15 | July 26 | Assignment 4 due July 22 |
| Week 13  July 29 | July 29  Final Exam | Aug 02 |  |
| Week 14  Aug 05 | Aug 05  No Class – Civic Holiday | Aug 09 |  |
| Week 15  Aug 12 | Aug 12  Last day of class  Group Project Presentation | Aug 16 | Group Project due Aug 12 at 6pm ET |