

## Week 4

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|  | Topics | MVC  SQL, LINQ, C# Helper Classes |
| Project(s) | BugTracker week 1 |
| Day 1 | Instruction | **Interviews**   * Week 3 deliverables (Completed Blog) with Local Instructor |
| **Learning Session (Morning)**   * SRS – (MVC) BugTracker * **Group Coding:** Retaining search results with paging * Form groups to discuss and determine DB structure of the BugTracker   **Learning Session (Afternoon)**   * Groups present DB findings * CF Proposed DB Model |
| Tasks | * Introduction to the BugTracker project & DB modeling |
| Day 2 | Instruction | **Learning Session**   * More Navigation properties (Many to Many, Many to One, One to One) * **Group Coding:** Models demo   **Learning Session**   * Seeding. Adding necessary data into look up tables. |
| Tasks | * **Lab:** Models & Database design, Seeding, Code First Migration and scaffolding |
| Day 3 | Instruction | **Learning Session**   * Roles discussion (**Document:** Assigning Roles to Users) * **Group Coding:** Helper Class example   **Learning Session**   * Project assignment (**Document:** Assigning Users to Projects) |
| Tasks | * **Lab:** Write Helper classes & methods for Projects |
| Day 4 | Instruction | **Learning Session**   * DataTables walkthrough (Setup) * **Group Coding**: Datatables |
| Tasks | * **Lab:** Apply datatables |
| Day 5 | Lab Day | **Learning Session**   * Database first by design * **Group Coding:** EDMX demo project |
| Homework | * Add multiple records in your database. Fill tables with data! |