

## Table of Contents

<b>Before we start...</b>	<b>4</b>
Install before we start	5
<b>Session 1: Extending Drupal with custom code</b>	<b>6</b>
Drupal as a framework	6
Your first module: The Red Button	8
Efficient coding	11
<b>Introducing MailFish</b>	<b>13</b>
<b>Session 2: Menus and permissions</b>	<b>18</b>
Menu System: Defining menu callbacks	18
The Permissions System	20
Menu Callback Files (.admin.inc, .pages.inc)	21
<b>Session 3: Form API (Part 1)</b>	<b>23</b>
Form System: Drupal Form API and Form Creation	23
Drupal Variables	25
<b>Session 4: Install files</b>	<b>31</b>
<b>Session 5: Form API (Part 2)</b>	<b>35</b>
Form Validation and Submission	36
<b>Session 6: Case study in coding (1 of 2)</b>	<b>38</b>
<b>Session 7: Node operations</b>	<b>41</b>
<b>Session 8: Database system</b>	<b>43</b>
Database Abstraction Layer	44
<b>Session 9: Block system and theme system</b>	<b>46</b>
Theming the MailFish Subscription Block	47
<b>Session 10: Reporting results</b>	<b>52</b>
<b>Session 13: Security in module development</b>	<b>55</b>
<b>Session 14: Simpletest</b>	<b>56</b>
<b>Session 15: Case studies and pair programming</b>	<b>58</b>
Security review	58
Debug & improve	58
<b>Appendix I: Drupal coding standards and conventions</b>	<b>59</b>
Coding standards	59
<b>Appendix II: Module development conventions</b>	<b>62</b>
<b>Drupal site speed check (optional)</b>	<b>64</b>
Caching and compressing	64
Tools to improve performance	65
Check Front End Performance	66