

## 🌐 AI-Driven Development – 30-Day Challenge 📝 Task 9 & 10

### 🔧 Skills

#### 📋 Task 9: Custom Skills

##### 1. Directory Structure:

```
.claudecode/skills/  
├─ chapter-outline.md  
├─ character-developer.md  
└─ plot-checker.md
```

##### 2. Each Skill MUST Have These 5 Things:

1. Skill Description - What does it do?
2. Parameters - What inputs does it need?
3. Examples (2-3) - Input/Output examples
4. Instructions - How to use it?
5. Output Format - What will the output look like?

##### 3. Three Essential Skills:

1. Chapter Outline Generator - Creates chapter outlines
2. Character Development Assistant - Creates character profiles
3. Plot Consistency Checker - Finds plot errors

#### IMPORTANT NOTES:

1. Skills must be reusable - Not for just one project
2. Focus on book writing workflow - Add real value
3. Test before submitting - Make sure they work in Claude Code
4. Use clear examples - So instructor can understand easily
5. Follow the exact structure - As shown in the guide

#### Skill Workflow:

```
User Request → Claude Code  
↓  
Uses appropriate skill  
(e.g., chapter-outline skill)  
↓  
Generates structured output  
↓  
Presents to user
```

### 🔍 Agent

#### 📋 Task 10: Agent

## 1. Directory Structure:

```
.claudecode/agents/
├─ main-orchestrator.md
├─ research-agent.md
├─ writing-agent.md
├─ editing-agent.md
```

1. main-orchestrator.md - Controls the entire workflow
2. research-agent.md - Handles research tasks
3. writing-agent.md - Writes the book content
4. editing-agent.md - Edits and polishes content
5. formatting-agent.md - Formats for publishing

## Agent Workflow:

```
User Request → Main Orchestrator
      ↓
Delegates to specific agents
(Research → Writing → Editing → Formatting)
      ↓
Coordinates all agents
      ↓
Delivers complete book
```

## Complete Structure:

```
Task9-Complete-Submission/
├─ .claudecode/
│   └─ agents/
│       ├── main-orchestrator.md
│       ├── research-agent.md
│       ├── writing-agent.md
│       ├── editing-agent.md
│       └─ formatting-agent.md
│   └─ skills/
│       ├── chapter-outline.md
│       ├── character-developer.md
│       ├── plot-checker.md
│       ├── research-checker.md
│       └─ style-enhancer.md
│   └─ workflows/
│       └─ book-writing-workflow.md
├─ README.md
├─ screenshot1.png # Agents folder
├─ screenshot2.png # Skills folder
└─ demo-video.mp4 # Optional: Working demo
```

## Learning Outcomes

1. Learned Claude Code Skills - How to create reusable skills
2. Mastered Sub-Agents - How to build specialized agents

3. Understood Orchestration - How agents work together
4. Applied to Book Writing - Created practical system
5. Prepared for Hackathon - Gained valuable experience

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