# Source Tracking Sheet - Mini Lab (SDE)

**☑** Basic Summary: What We're Doing

### **Project:**

We're working on the **AI Mentor Project** — specifically building a **Mini Lab for the SDE** (Software Development Engineer) Track.

### Goal:

Our main goal is to **collect, structure, and organize high-quality learning content** for **each module** in a **consistent JSON format**.

Each module covers:

- 8 Segments (like Introduction, Real-World Use Cases, Problem Types, etc.)
- 4 Learning Levels (Beginner → Expert)

### How We Do It:

We take **trusted sources** (Books, Blogs, Courses, YouTube, Podcasts, Research Papers, Industry Reports, Google Search) — then **simplify and format** them into structured files.

We make sure each source is:

- · Realistic and human-like
- Properly documented in a **Source Tracking Sheet** (with module, source type, where we got it, and any useful link)

## **Big Picture:**

Our work builds the **foundation dataset** that an AI Mentor will later use to guide real students step by step — with clear levels, quizzes, mini projects, and real-world context.

Complete Instructions:- https://tabby-driver-fde.notion.site/SDE-21a67f5ff62980fe99b8f26613693287?source=copy\_link

## 1. Module: Module 0: Designation Deep Dive (SDE Overview)

Source File	Source Type	Data Collected From	Link(s) / Reference
public_Source1_Book.json	Book	Cracking the Coding Interview	http://www.r- 5.org/files/books/computers/overviews/cs- tools/Gayle Laakmann- Cracking the Coding Interview-EN.pdf
public_Source2_Course.json	Course	GeeksforGeeks, Medium	https://www.geeksforgeeks.org/software- engineering/software-engineering-introduction-to- software-engineering/
public_Source3_YouTube.json	YouTube	YouTube video by Gaurav Sen	https://www.youtube.com/watch?v=x9nkpgV-wcI
public_Source4_Podcast.json	Podcast	Podcast — Joma Tech (YouTube)	https://www.youtube.com/watch?v=mrHNSanmqQ4
public_Source5_Newsletter.json	Newsletter Or Article	Educative,  GitHub Octoverse Report	https://www.educative.io/blog/how-to-become-a-software-engineer https://octoverse.github.com/
public_Source6_Search.json	Search (e.g., Google/SEO topics)	Coursera, Skill-lync	https://www.coursera.org/articles/software-engineer-career-path https://skill-lync.com/blogs/deep-dive-into-software-development

public_Source7_ResearchPaper	ResearchPaper	Research Paper from rxiv.org	https://arxiv.org/pdf/2311.11457
public_Source8_IndustryTrends	IndustryTrends	Fullscale, GFG	https://fullscale.io/blog/software-engineer-titles- hierarchy/

# 2. Module: Module 1: Competitive Programming Patterns

Source File	Source Type	Data Collected	Link(s) / Reference
	7,70	From	
public_Source1_Book.json	Book	Competitive Programming Patterns	https://cses.fi/book/book.pdf
public_Source2_Course.json	Course	GeeksforGeeks	https://www.geeksforgeeks.org/best-courses-on-competitive-programming/
public_Source3_YouTube.json	YouTube	YouTube video by Ashish Pratap Singh	https://www.youtube.com/watch?v=DjYZk8nrXVY
public_Source4_Podcast.json	Podcast	Podcast  Fraz's (YouTube)	https://www.youtube.com/watch?v=tTyqtk3V-h4
public_Source5_Newsletter.json	Newsletter Or Article	Inspired by Grokking the Coding	https://www.geeksforgeeks.org/python/implementing-news-parser-using-template-method-design-pattern-in-python/

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public_Source6_Search.json	Search (e.g., Google/SEO topics)	Google	Competitive pattern printing
public_Source7_ResearchPaper	ResearchPaper	Research Paper	https://dl.acm.org/doi/10.1145/3725798.3725804
public_Source8_IndustryTrends	IndustryTrends	Hackerrank, GFG	https://www.hackerrank.com/research/developer-skills/2024

# 3. Module: Module 2: GitHub & Open Source Etiquette

Source File	Source Type	Data Collected From	Link(s) / Reference
public_Source1_Book.json	Book	The entire Pro Git book, written by Scott Chacon and Ben Straub	https://git-scm.com/book/en/v2
public_Source2_Course.json	Course	GeeksforGeeks, Medium	https://www.geeksforgeeks.org/software- engineering/software-engineering-introduction-to- software-engineering/
public_Source3_YouTube.json	YouTube	YouTube video by Gaurav Sen	https://www.youtube.com/watch?v=x9nkpgV-wcI
public_Source4_Podcast.json	Podcast	Podcast — Joma Tech (YouTube)	https://www.youtube.com/watch?v=mrHNSanmqQ4
public_Source5_Newsletter.json	Newsletter Or Article	Educative,  GitHub  Octoverse  Report	https://www.educative.io/blog/how-to-become-a-software-engineer https://octoverse.github.com/

public_Source6_Search.json	Search (e.g., Google/SEO topics)	Coursera, Skill-lync	https://www.coursera.org/articles/software-engineer-career-path https://skill-lync.com/blogs/deep-dive-into-software-development
public_Source7_ResearchPaper	ResearchPaper	Research Paper from rxiv.org	https://arxiv.org/pdf/2311.11457
public_Source8_IndustryTrends	IndustryTrends	Fullscale, GFG	https://fullscale.io/blog/software-engineer-titles-hierarchy/