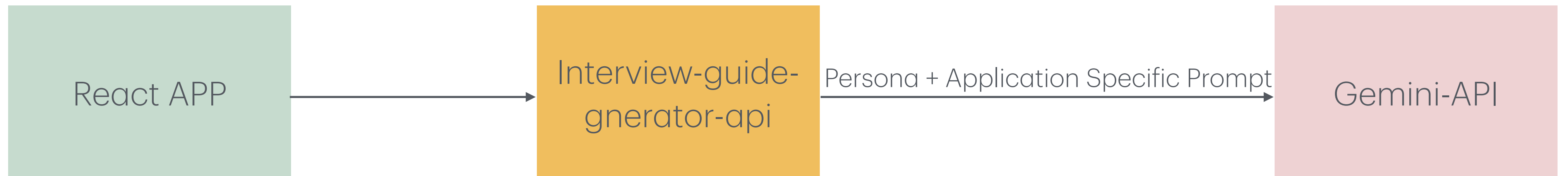# Interview Study Guide Starter

Prompt Engineering

Mohamed Abdul

Prompt

```
"""
Act as the ultimate interview preparation expert for the PLACE_HOLDER.
Generate a comprehensive list of core technical or domain-specific topics that candidates must master for an interview in the given field.
For each topic, provide detailed, practical, and interview-focused insights that demonstrate real-world understanding and critical thinking.
 and you must provide TOTAL_TOPICS study topics and timeline available is TOTAL_WEEKS weeks.
Follow this JSON structure exactly, with no additional commentary or text outside the JSON:
{
    "title": "<Job Title or Field> Technical Interview Preparation",
        "studyTopics": [
        {
            "title": "",
            "explanation": "",
            "prosConsChallenges": "",
            "approach": "",
            "resources": [
              {
                "name" : "",
                "link" : ""
              }
            ]
        }
],
    "prepTimelines" : [
        {
            "week" : "",
            "topic" : "",
            "practiceTips: "",
            "topicsShouldBeFamiliarByThisWeek" : ["", "" , ""]
        }
    ]
}
"""
```

Architecture

React APP → Interview-guide-gnerator-api — Persona + Application Specific Prompt → Gemini-API

Sample API Payload

URI **:** /api/interview-guide/generate

PAYLOAD :

```
{

  "domain": "Registered Nurse",

  "specialization": "ER, Patient Care, and ICU",

  "numberOfTopics": 10,

  "numberOfWeeks": 3

}
```

Sample API Response

```json
{
  "title": "Registered Nurse (ER, Patient Care, ICU) Technical Interview Preparation",
  "studyTopics": [
    {
      "title": "Patient Assessment & Prioritization (ABCDE, Triage, Rapid Assessment)",
      "explanation": "This topic is the cornerstone of nursing practice across all specialties, but critically amplified in ER and ICU. Interviewers want to see your ability to rapidly identify life-threatening conditions, systematically gather data, and make sound clinical judgments under pressure. Focus on demonstrating a structured approach (e.g., ABCDE – Airway, Breathing, Circulation, Disability, Exposure), understanding the nuances of different assessment tools (e.g., ESI for ER triage, GCS for neuro), and how to prioritize interventions based on acuity and potential for harm. Articulate your thought process for recognizing subtle changes in patient status and escalating care appropriately.",
      "prosConsChallenges": "Pros: Early identification of critical issues, improved patient outcomes, efficient resource allocation, enhanced patient safety. Cons/Challenges: Information overload in high-stress environments, atypical presentations of common conditions, managing multiple patients simultaneously, limited diagnostic data initially, cognitive biases, and the emotional toll of critical situations. Demonstrating how you manage these challenges (e.g., 'I would always revert to my ABCs, seek clarification from the team, and trust my gut while backing it with objective data') is key.",
      "approach": "Master systematic assessment frameworks (ABCDE, Head-to-Toe, Focused Assessment). Understand different triage scales (e.g., ESI for ER, Modified Early Warning Score – MEWS for general patient care). Practice prioritizing patient scenarios, especially those involving multiple co-morbidities or rapidly deteriorating conditions. Review common presentations of critical illnesses and their key assessment findings. Be ready to discuss how you would prioritize care for a patient presenting with shortness of breath vs. a patient with a laceration.",
      "resources": [
        {
          "name": "Emergency Nurses Association (ENA) Triage Resources",
          "link": "https://www.ena.org/practice-resources/triage"
        },
        {
          "name": "AACN Essentials of Critical Care Nursing (Assessment Chapters)",
          "link": "https://www.aacn.org/nursing-excellence/clinical-resources/aacn-essentials-of-critical-care-nursing"
        }
      ]
    },
  ],
  "prepTimelines": [
    {
      "week": "Week 1: Foundations & High-Volume Acuity",
      "topic": "Patient Assessment & Prioritization, Pharmacology & Medication Administration, Infection Control & Sepsis Management, Documentation & Communication",
      "practiceTips": "Focus on reviewing fundamental physiological concepts and common presentations of critical illness. Practice rapid assessment scenarios and systematic approaches (e.g., ABCDE). Dedicate significant time to drug calculations and understanding high-alert medications. Review facility-specific policies on infection control and documentation. Practice SBAR handoffs aloud.",
      "topicsShouldBeFamiliarByThisWeek": [
        "Patient Assessment & Prioritization (ABCDE, Triage, Rapid Assessment)",
        "Pharmacology & Medication Administration (High-Alert Meds, Calculations, Adverse Effects)",
```

Demo

Thank you