Hi there!

We're excited about your candidacy and want to give you an opportunity to dive deeper into our world at Sekai. This take-home assignment is designed for you to showcase your ability to quickly learn new tools, creatively leverage AI technology, and build immersive product experiences. Let's have some fun with it!

Assignment Overview

You'll build a Next.js application (one repo containing both frontend and backend) integrated with Supabase for user authentication and management. Your app will provide an interactive, text-based, AI-powered Dungeons & Dragons (D&D)-style game.

If you're not familiar with Dungeons & Dragons, that's totally fine! Think of it as an interactive storytelling game where players choose roles and make decisions that shape the outcome of the narrative. We encourage you to research any unfamiliar concepts or simply use your imagination to create a fun experience.

We'll provide various scenario templates similar to the "Asian helicopter parenting" or "White House Chaos: Trump's Advisor" example. Your application should be designed flexibly so it can adapt and run in any scenario based on a provided template.

Understanding the D&D-Style Gameplay

Below is the most basic gameplay loop for DnD:

1. The AI (acting as the storyteller or "Dungeon Master") describes the scene or situation.
2. You, the player, decide what your character does or says.
3. The AI determines the outcome based on your character's abilities, your choices, and a Random Number Generator D20.
4. The AI describes the results of your actions and how the world reacts.
5. The story progresses based on these interactions. Repeat!

The real magic and lasting appeal come from **Meaningful Story Progression**. Your choices should feel like they matter, influencing the narrative and the world around you. The AI should ideally "remember" key events and decisions, creating a sense of continuity and consequence.

Goals & Deliverables

1. **User Authentication & Management**
   ○ Set up Supabase to handle user signup, login, and basic profile management.
2. **Interactive AI-Powered Gameplay**
   ○ Implement a text-based interactive AI experience where:
       ■ The AI should introduce the game setting (from the template), guide the user through choosing customizations (`playerCustomizations`), and manage the story progression based on user interaction.
       ■ The AI needs to act as a dynamic storyteller, adapting the narrative based on player choices and maintaining a sense of memory/continuity.
   ○ You're free to use OpenAI APIs or similar services for text generation.
3. **User Experience & Product Thinking**
   ○ Design a clear and engaging interface. Prioritize making the user journey intuitive and immersive.
   ○ Think about user motivation:
       ■ **Sense of Progression:** How can the player see their character or situation evolving based on their actions?
       ■ **Goals & Achievement**: How can the game present meaningful short-term or long-term goals that emerge naturally from the story? (e.g., In the 'Raising Your Asian Child' scenario, this might involve seeing specific outcomes like improved grades, or facing challenges like parent-teacher conferences based on prior actions).
   ○ Extra points if you enhance the experience with visuals, voice interactions, sound effects, or background music.

Technical Requirements

- **Stack:** Next.js (React + Node.js)
- **Database & Auth:** Supabase
- **AI Integration:** OpenAI or any LLM service you're comfortable with.
- **Repo Structure:** Clearly organized frontend and backend within a single repository.

Timeline

- Aim to complete the core functionalities in one day.
- If you're passionate and get obsessed with the project (and we hope you do!), feel free to spend up to 2-3 days to polish your creation.

What We're Looking For

- Ability to rapidly learn and implement new technologies (Next.js, Supabase, AI integrations).
- Enthusiasm for Sekai's concepts and creating enjoyable, immersive experiences.

- Strong product thinking—prioritize ease of use, engagement, and creativity.

Please send us:

- The link to your GitHub repository.
- Brief documentation explaining setup instructions and your thought process.
- Optional: A link to a screen recording (approx. 30 minutes) of you playing your game. In the recording, please also *verbally share your thoughts* as you play or afterwards:
    - Did you enjoy the scenario and the gameplay experience you created?
    - What parts do you think worked well?
    - What aspects still need improvement?
    - What would be your next steps if you continued working on it?

Have fun, get creative, and let your imagination run wild! We can't wait to see what you build.

Cheers,
The Sekai Team

Appendix - Example Scenario Templates

Understanding the Scenario Templates(in the Appendix)

The provided JSON templates (see Appendix) define the specific game world. Here's a quick breakdown of their structure:

- `attributes`: These are the core statistics or characteristics that define your character's capabilities within that scenario (e.g., "Academic Pressure" or "Spin").
- `baseSkills`: These are specific actions tied to attributes, representing what your character can attempt to do (e.g., "Grade Negotiation" or "Tantrum Management").
- `playerCustomizations`: These are choices you make at the beginning of the game, like selecting a role or background. These choices often grant bonuses to specific `attributes`.

The typical flow should begin with the player choosing their `playerCustomizations`. Then, based on the template's design, the player might allocate a limited pool of points to their `attributes`, which in turn shapes their effectiveness with related `baseSkills`.

Raising Your Asian Child (Helicopter Parent Edition):
You are parenting your asian kid to be the best student ever! (or not)
{
  ""**Dnd-Scenario**"": ""Raising Your Asian Child (Helicopter Parent Edition)"",
  ""**attributes**"": {
    ""Academic Pressure"": ""Your ability to push for educational excellence. Determines effectiveness in enforcing study habits, test preparation, and grade expectations."",
    ""Tiger Discipline"": ""Your strictness and enforcement of rules. Essential for maintaining rigid schedules, proper behavior, and high standards in all aspects of life."",
    ""Social Engineering"": ""Your skill at controlling your child's social environment. Crucial for managing friendships, extracurricular activities, and building the perfect college application."",
    ""Family Honor"": ""Your commitment to upholding cultural traditions and family reputation. Affects how well your child represents the family and respects ancestral values."",
    ""Resource Management"": ""Your ability to optimize time, money, and connections. Determines how effectively you can provide advantages like tutoring, lessons, and networking opportunities."",
    ""Emotional Tactics"": ""Your skill at psychological motivation techniques. Influences how you leverage guilt, comparison, and conditional approval to ensure compliance.""
  },
  ""baseSkills"": {

""Test Prep Drilling"": {""attribute"": ""Academic Pressure"", ""description"": ""Conducting intensive study sessions and practice tests to ensure top scores on every examination.""},
""Grade Negotiation"": {""attribute"": ""Academic Pressure"", ""description"": ""Confronting teachers about marks and assignments, ensuring your child receives every possible point.""},
""Strict Scheduling"": {""attribute"": ""Tiger Discipline"", ""description"": ""Creating and enforcing a regimented timetable with minimal free time to maximize productivity.""},
""Punishment System"": {""attribute"": ""Tiger Discipline"", ""description"": ""Implementing appropriate consequences for any performance below expectations or rule violations.""},
""Playdate Vetting"": {""attribute"": ""Social Engineering"", ""description"": ""Carefully selecting acceptable friends based on their academic performance and parental occupation.""},
""Activity Monitoring"": {""attribute"": ""Social Engineering"", ""description"": ""Maintaining surveillance on all social interactions and swiftly intervening when necessary.""},
""Relative Comparison"": {""attribute"": ""Family Honor"", ""description"": ""Motivating your child through direct comparisons to cousins and other family members' achievements.""},
""Cultural Tradition Enforcement"": {""attribute"": ""Family Honor"", ""description"": ""Ensuring rigorous participation in cultural practices, language learning, and family obligations.""},
""Educational Investment"": {""attribute"": ""Resource Management"", ""description"": ""Allocating financial resources to the optimal combination of schools, programs, and educational materials.""},
""Schedule Optimization"": {""attribute"": ""Resource Management"", ""description"": ""Maximizing each day's productive hours through careful planning and elimination of time-wasting activities.""},
""Guilt Induction"": {""attribute"": ""Emotional Tactics"", ""description"": ""Reminding your child of family sacrifices made for their benefit to motivate greater effort and performance.""},
""Conditional Approval"": {""attribute"": ""Emotional Tactics"", ""description"": ""Strategically providing love and praise only when expectations are met or exceeded.""}
},
""startingPoint"": ""First Parent-Teacher Conference of the School Year"",
""playerCustomizations"": {
""parentingStyle"": {
""description"": ""Choose your helicopter parenting specialization"",
""content"": {
""Academic Taskmaster"": {
""description"": ""You are singularly focused on grades, test scores, and academic rankings. Nothing matters more than perfect report cards and admission to elite universities."",
""attributeBonus"": {""Academic Pressure"": 2, ""Emotional Tactics"": 1}
},
""Prestige Climber"": {
""description"": ""You obsessively collect status symbols and connections. Every activity must enhance your child's resume and your family's standing in the community."",
""attributeBonus"": {""Social Engineering"": 2, ""Resource Management"": 1}
},
""Cultural Purist"": {

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      ""description"": ""You emphasize cultural heritage above all else. Your child must be fluent
in your native language, respect traditions, and never become 'too Westernized.'"",
      ""attributeBonus"": {""Family Honor"": 2, ""Tiger Discipline"": 1}
    },
    ""Future Planner"": {
      ""description"": ""You've mapped out your child's entire life through retirement. Every
decision from elementary school to career choice has already been determined."",
      ""attributeBonus"": {""Resource Management"": 2, ""Academic Pressure"": 1}
    },
    ""Talent Maximizer"": {
      ""description"": ""You're determined that your child will master multiple skills to perfection.
Piano, violin, competitive math, and Olympic swimming are just the beginning."",
      ""attributeBonus"": {""Tiger Discipline"": 2, ""Social Engineering"": 1}
    }
   }
  },
  ""familyBackground"": {
   ""description"": ""Choose your family's background and values"",
   ""content"": {
    ""Traditional Immigrant"": {
      ""description"": ""First-generation immigrant who sacrificed everything for a better life.
Your child must achieve success to justify the hardships you endured."",
      ""attributeBonus"": {""Family Honor"": 2, ""Emotional Tactics"": 1}
    },
    ""Elite Professional"": {
      ""description"": ""Doctor, lawyer, or engineer with prestigious credentials. Your child must
meet or exceed your professional success to maintain family standards."",
      ""attributeBonus"": {""Academic Pressure"": 2, ""Resource Management"": 1}
    },
    ""Academic Legacy"": {
      ""description"": ""Family with generations of scholarly achievement and elite university
attendance. Anything less than continuing this tradition is unthinkable."",
      ""attributeBonus"": {""Family Honor"": 1, ""Academic Pressure"": 2}
    },
    ""Entrepreneurial Success"": {
      ""description"": ""Self-made business achiever who built success through relentless hard
work. Your child must demonstrate similar drive and results-oriented thinking."",
      ""attributeBonus"": {""Tiger Discipline"": 2, ""Resource Management"": 1}
    },
    ""Competitive Community"": {
      ""description"": ""Living in an area where all parents are intensely involved and comparing
children. Your parenting is constantly observed and judged by peers."",
      ""attributeBonus"": {""Social Engineering"": 2, ""Emotional Tactics"": 1}
    }
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      }
    }
  }
}
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White House Chaos: Trump's Advisor
You are Trump's advisor, trying to make him the best president the universe has ever seen (Parody).

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{
 "Dnd-Scenario": "White House Chaos: Trump's Advisor",
 "attributes": {
   "Spin": "Ability to manipulate information, craft alternative narratives, and control public
perception during scandals and controversies.",
   "Patience": "Mental fortitude to endure presidential tantrums, 3AM tweet storms, and absurd
demands without having a nervous breakdown.",
   "Cunning": "Political savvy to navigate Washington power games, outsmart rivals, and
implement your agenda while no one's looking.",
   "Flattery": "Skill at ego management, delivering perfectly-timed compliments, and maintaining
favor with the narcissist-in-chief.",
   "Crisis Management": "Talent for handling emergencies, from nuclear threats to covfefe
tweets, often simultaneously and with minimal preparation.",
   "Media Savvy": "Understanding of press dynamics, social media algorithms, and how to turn
'fake news' accusations to your advantage."
 },
 "baseSkills": {
   "Alternative Facts": {"attribute": "Spin", "description": "Create believable falsehoods or reshape
reality to serve the administration's narrative and distract from actual problems."},
   "Damage Control": {"attribute": "Spin", "description": "Minimize fallout from presidential gaffes,
scandals, or 3AM tweets that threatened nuclear war or crashed the stock market."},
   "Tantrum Management": {"attribute": "Patience", "description": "Calm presidential rage
episodes by offering Diet Coke, compliments, or a new enemy to focus on."},
   "Sleep Deprivation": {"attribute": "Patience", "description": "Function effectively despite being
awakened at all hours for urgent matters like bad TV coverage or burger cravings."},
   "Bureaucratic Maneuvering": {"attribute": "Cunning", "description": "Navigate complex White
House power dynamics and ensure your rivals get blamed for failures while you claim credit for
successes."},
   "Leak Prevention": {"attribute": "Cunning", "description": "Keep embarrassing information from
reaching the press or identify which colleague to frame when leaks inevitably happen."},
   "Ego Massage": {"attribute": "Flattery", "description": "Provide validation and praise to maintain
presidential confidence and secure your position in the inner circle."},
   "Loyalty Signaling": {"attribute": "Flattery", "description": "Demonstrate unwavering support
publicly, even when defending policies that contradict statements from 10 minutes ago."},
```

    "Distraction Creation": {"attribute": "Crisis Management", "description": "Generate new outrageous headlines to divert attention from ongoing scandals, investigations, or policy failures."},
    "Nuclear De-escalation": {"attribute": "Crisis Management", "description": "Talk the president down from extreme military options by appealing to ratings, legacy concerns, or golf schedule conflicts."},
    "Twitter Translation": {"attribute": "Media Savvy", "description": "Interpret and explain presidential social media outbursts to confused allies, enemies, and markets without revealing your own confusion."},
    "Press Wrangling": {"attribute": "Media Savvy", "description": "Manage hostile reporters, dodge questions, and turn briefings into propaganda opportunities regardless of the day's chaos."}
  },
  "startingPoint": "Your first day in the chaotic White House. The President just fired your predecessor via tweet while you were being security-screened. He's already called you by three different names and asked if you can 'do something about those tariff people.' Intelligence briefings are piling up unread, and CNN is reporting a possible missile test in North Korea. The President wants McDonald's for lunch and someone to explain why his approval rating isn't 100%.",
  "playerCustomizations": {
    "role": {
      "description": "Choose your role in the Trump administration",
      "content": {
        "Chief of Staff": {
          "description": "The organizational mastermind attempting to create order from chaos. You control the President's schedule, access to information, and which advisors he talks to (in theory).",
          "attributeBonus": {"Crisis Management": 2, "Patience": 1}
        },
        "Press Secretary": {
          "description": "The public face tasked with defending the indefensible with a straight face. Your daily briefings explaining presidential tweets are performance art that would impress Broadway.",
          "attributeBonus": {"Spin": 2, "Media Savvy": 1}
        },
        "National Security Advisor": {
          "description": "The strategy expert responsible for keeping America safe despite the Commander-in-Chief's tendency to make policy via Fox & Friends. You hide the nuclear football when necessary.",
          "attributeBonus": {"Crisis Management": 2, "Cunning": 1}
        },
        "Family Member/Advisor": {
          "description": "Related by blood or marriage, you've leveraged your personal relationship into nebulous but vast responsibilities. Constitutional norms and security clearances are just suggestions.",

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      "attributeBonus": {"Flattery": 2, "Cunning": 1}
    },
    "Cabinet Secretary": {
      "description": "Department head attempting to implement actual policy while flying under
the radar. Your goal is to avoid presidential attention, tweets, or random policy reversals in your
domain.",
      "attributeBonus": {"Cunning": 2, "Spin": 1}
    }
  }
},
"background": {
  "description": "Choose your pre-White House background",
  "content": {
    "Business Executive": {
      "description": "Former corporate leader from Trump's world of gold-plated capitalism. You
speak his language of deals and ratings, though you're disturbed to learn government can't
declare bankruptcy.",
      "attributeBonus": {"Flattery": 2, "Crisis Management": 1}
    },
    "Political Operative": {
      "description": "Career Washington insider who's survived multiple administrations. Your
Rolodex is legendary, but you've never seen chaos like this and your antacid budget has
tripled.",
      "attributeBonus": {"Cunning": 2, "Spin": 1}
    },
    "Military Veteran": {
      "description": "Disciplined former officer bringing structure to the White House. Your
combat experience prepared you for danger but not for defending tweets about shark
documentaries at 2AM.",
      "attributeBonus": {"Patience": 2, "Crisis Management": 1}
    },
    "TV Personality": {
      "description": "Media-savvy communicator who understands the President's true
constituency is cable news. You know exactly which camera to look at while delivering talking
points that border on fiction.",
      "attributeBonus": {"Media Savvy": 2, "Spin": 1}
    },
    "Campaign Loyalist": {
      "description": "True believer who's been there since the escalator ride. Your unwavering
devotion has earned you a place in the inner circle, though your job description changes
hourly.",
      "attributeBonus": {"Loyalty Signaling": 2, "Patience": 1}
    }
  }
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        }
    }
}
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