

# Screening Test – Senior Full Stack Developer (SaaS HR Product)

 **Submission Deadline: 5–6 hours**

 **Submission Format: GitHub repo link + README.md**

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## Scenario

You are building a **Leave Request Workflow** for our SaaS HR platform.

The workflow should allow:

- Employees to submit leave requests
- Managers to approve/reject requests

Use **mock data** for users (Employees & Managers) and leave balances. No need for a real database — in-memory data or JSON storage is fine.

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## Candidate Tasks

### ♦ 1. Backend API

Build **basic APIs**:

- `POST /leave/apply` → employee applies for leave
- `GET /leave/pending` → manager views pending requests
- `POST /leave/approve/:id` → manager approves/rejects a request

**Requirements:**

- Validate dates (no past dates, no overlaps)
- Check leave balance before approval
- Ensure only “Manager” role can approve

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## ♦ 2. Frontend

Build a small UI (React/Next.js or similar):

- Employee → form to apply for leave (with validation & feedback)
- Manager → dashboard with list of pending requests + approve/reject buttons

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## ♦ 3. Role Handling

- Mock login for **Employee** and **Manager** (hardcoded users is fine)
- Show different UI based on role

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## ♦ 4. Code Quality & Documentation

- Use clean architecture & reusable components
- Provide a **README.md** with:
  - Setup instructions
  - Assumptions
  - Brief explanation of your approach

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## ♦ 5. Testing

- Add **unit tests** for one backend function (e.g., date validation or leave balance check)
- Add a simple **frontend test** for the leave form

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## ♦ Bonus (Optional – 5 marks)

- Add a **monthly leave summary endpoint** (**GET /leave/summary**)
- Add TypeScript types for API responses

**Best of luck!**