

# Frontend Practical Assignment

React • GSAP • Three.js

## Practical Information

- **Role:** Frontend Developer (React)
- **Experience Level:** 1–2 Years
- **Estimated Time:** 2–3 Hours
- **Task Type:** Single-page interactive frontend task
- **Submission Format:** GitHub repository link

## Mandatory Technologies

- React (Vite or Create React App)
- GSAP with ScrollTrigger
- Three.js using `@react-three/fiber`
- Modern JavaScript (ES6+)

## Optional (Recommended)

- `@react-three/drei`
- ESLint
- Prettier

## Task Scope

- Build a single-page React application
- Include at least 3 scroll-animated sections
- Combine 2D GSAP animations and 3D Three.js interactions

- Ensure smooth scrolling, clean transitions, and responsive behavior

## Key Expectations

- Strong usage of React hooks (`useRef`, `useEffect`)
- Scroll-linked animations (not time-based)
- Interactive 3D element with hover feedback
- Performance-conscious implementation
- Clean, readable, and well-structured code

## Deliverables

- GitHub repository with complete source code
- README with setup instructions and animation explanation
- Application must run locally without errors