←   **Detailed_All_Modules_Roadmap.docx**

🗺️ Detailed Roadmap – All Modules with Subpoints

Team: 1 Developer & 1 Intern

Stack: React.js (Vite) + TailwindCSS + Firebase/Supabase (or Node.js + PostgreSQL)

1. Setup & Shared Infrastructure

- React + Vite + Tailwind + Router Setup

  1. Initialize Vite + TailwindCSS project
  2. Setup ESLint/Prettier for code quality
  3. Add React Router with protected routes

- Role-based Auth

  4. Implement login/signup/logout flows
  5. Add email verification and password reset
  6. Restrict views based on roles (admin, team, client)

- Sidebar + TopNav Layout

  7. Create collapsible sidebar with navigation icons
  8. Implement responsive top navigation bar
  9. Add active route highlighting

2. Project Management Module

- Create/Edit/Delete Projects

  10. Form to add new projects with title/description
  11. Ability to edit and archive/delete projects
  12. Set visibility: public/private

- Project Views and Filters

  13. List all projects with filters by owner/status
  14. Search by title and tags
  15. Paginated project table/list

- Kanban Board + Drag-and-Drop

  16. Create columns: To Do, In Progress, Done
  17. Drag tasks between columns using react-beautiful-dnd
  18. Support reordering within columns

- Calendar & Gantt Views

  19. Calendar using react-big-calendar
  20. Gantt chart using Frappe Gantt or similar
  21. Color-coded tasks by priority

- Task Management

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- Task Comments & Mentions

  25. Add comments section per task
  26. Notify mentioned users via @mentions
  27. Render markdown or rich text editor

- File Attachments

  28. Drag & drop or select files to upload
  29. Use Firebase Storage or S3-compatible API
  30. Preview images, PDFs

- Project Settings

  31. Rename project, manage team access
  32. Transfer ownership, archive/delete
  33. Webhook or email notifications (optional)

3. HR Management Module
- Employee Directory

  34. Profile: Name, email, phone, department, role
  35. Filter/search team members
  36. Profile picture upload

- Leave & Attendance

  37. Track clock-in/clock-out
  38. Leave types: Casual, Sick, Annual
  39. Leave request and approval workflow

- Document Management

  40. Store CVs, ID cards, contracts
  41. Assign expiry dates for docs
  42. Categorize files by type

- Onboarding/Offboarding

  43. Checklist for onboarding steps
  44. Send welcome documents/invite email
  45. Track exit checklist and assets

- Role & Access Control

  46. Define permission levels: Admin, HR, Staff
  47. Control module visibility by role
  48. Audit user access logs

4. Communication Module
- Channels & DMs

  49. Create team or project-specific channels
  50. Allow private messages between users
  51. Invite users to channels

- Threaded Messaging

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- File Sharing

    55. Drag/drop or select files to send
    56. Preview files (PDF, image, video) in chat
    57. Link to uploaded task attachments

- Notifications & Mentions

    58. In-app notifications (toast, badge)
    59. Email notifications for offline users
    60. Highlight @mentions in chat

- Voice/Video Chat (optional)

    61. Integrate WebRTC or Jitsi Meet
    62. One-on-one and group calls
    63. Mute, screen share, end call actions

5. Reporting Module

- Task & Productivity Reports

    64. Project progress tracking (percent done)
    65. Completed task count per user
    66. Daily/weekly reports

- User Activity Logs

    67. Log login times, actions taken
    68. Audit access to sensitive info
    69. Filter logs by user/date

- Exporting Reports

    70. Download CSV/PDF
    71. Print-friendly report view
    72. Email scheduled reports

- KPI Dashboards

    73. Cards for project count, tasks overdue
    74. Charts for productivity and team load
    75. Custom time range filters

6. Time Tracking & Monitoring

- Manual & Auto Tracking

    76. Start/Stop timer manually
    77. Track duration per task/project
    78. Background tracking (optional)

- Screenshot Capture

    79. Capture every X minutes
    80. Blur sensitive data (optional)
    81. Enable screenshot review by admin

- Activity Monitoring

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- Idle Detection & Alerts

    85. Detect inactivity (no input)
    86. Pause timer or notify user
    87. Log idle time separately

- Timesheets & Approval

    88. Show weekly logged hours
    89. Submit for manager approval
    90. Reject/resubmit workflow

7. QA, Testing & Deployment

- Testing

    91. Manual testing by intern
    92. Unit tests for forms and APIs
    93. Edge case testing (invalid dates, blank fields)

- Bug Fixes & Optimization

    94. Fix visual/UI bugs
    95. Improve load times and performance
    96. Check console warnings/errors

- Deployment

    97. Host frontend (Vercel, Netlify)
    98. Host backend (Firebase Functions or Render)
    99. Setup custom domain and HTTPS