

Assignment

Task Instructions

Setup

- Create a GitHub repository for the Personal Finance Tracker project.
- Ensure the project includes:
 - package.json
 - Basic unit tests for Dashboard, Expenses, and Income modules.
- Use **GitHub Actions** for CI.

CI Configuration

- Create a workflow file:
`.github/workflows/ci.yml`
- Configure the pipeline to:
 - Trigger on push and pull_request
 - Install Node.js
 - Install dependencies using npm install
 - Run tests using npm test
 - Build the project using npm run build

Pipeline Flow

Code Push → Dependency Install → Run Tests → Build Application

Bonus Challenge

- Fail the pipeline if any test fails.
- Display CI status badge in the repository README.

Expected Output

- CI pipeline runs automatically on every push.
- Tests and build execute successfully.
- Build fails if test cases fail.

```
RERUN rerun all tests

✓ personal-finance-tracker src/Income.spec.ts (1 test) 5ms
✓ personal-finance-tracker src/expenses.spec.ts (1 test) 5ms
✓ personal-finance-tracker src/Dashboard.spec.ts (1 test) 3ms
✓ personal-finance-tracker src/app/app.spec.ts (2 tests) 111ms

Test Files  4 passed (4)
Tests      5 passed (5)
Start at   16:29:12
Duration   1.43s

PASS Waiting for file changes...
press h to show help, press q to quit

C:\Users\trish\personal-finance-tracker\personal-finance-tracker>ng serve --open
Browser bundles
Initial chunk files | Names           | Raw size
main.js              | main             | 48.49 kB |
styles.css            | styles           | 95 bytes |
                                         | Initial total   | 48.58 kB

Server bundles
Initial chunk files | Names           | Raw size
main.server.mjs     | main.server      | 49.75 kB |
server.mjs           | server           | 1.81 kB |
polyfills.server.mjs | polyfills.server | 243 bytes |

Application bundle generation complete. [1.731 seconds] - 2026-02-11T11:02:08.428Z

Watch mode enabled. Watching for file changes...
NOTE: Raw file sizes do not reflect development server per-request transformations.
4:32:08 pm [vite] (client) Re-optimizing dependencies because lockfile has changed
4:32:08 pm [vite] (ssr) Re-optimizing dependencies because lockfile has changed (x2)
→ Local: http://localhost:4200/
→ press h + enter to show help
Initial chunk files | Names | Raw size
main.js              | main  | 1.90 kB |
```

```
Application bundle generation complete. [0.346 seconds] - 2026-02-11T11:04:14.783Z
Page reload sent to client(s).
Browser bundles
Initial chunk files | Names | Raw size
main.js | main | 1.90 kB |
styles.css | styles | 95 bytes |
| Initial total | 2.00 kB

Server bundles
Initial chunk files | Names | Raw size
main.server.mjs | main.server | 49.75 kB |
server.mjs | server | 1.81 kB |
polyfills.server.mjs | polyfills.server | 243 bytes |

Application bundle generation complete. [0.341 seconds] - 2026-02-11T11:05:03.395Z
Initial chunk files | Names | Raw size
main.js | main | 2.43 kB |

Application bundle generation complete. [0.167 seconds] - 2026-02-11T11:06:09.642Z
Page reload sent to client(s).
Initial chunk files | Names | Raw size
main.js | main | 2.44 kB |

Application bundle generation complete. [0.166 seconds] - 2026-02-11T11:06:25.159Z
Component update sent to client(s).
Initial chunk files | Names | Raw size
main.js | main | 8.45 kB |

Application bundle generation complete. [0.602 seconds] - 2026-02-11T11:10:04.208Z
Page reload sent to client(s).
4:40:06 pm [vite] (client) ⚡ new dependencies optimized: @angular/common, @angular/forms
4:40:06 pm [vite] (client) ⚡ optimized dependencies changed. reloading
C:\Users\trish\personal-finance-tracker\personal-finance-tracker>ng serve --open
```

```
Browser bundles
Initial chunk files | Names           | Raw size
main.js              | main             | 8.45 kB
styles.css            | styles           | 95 bytes
                                         | Initial total   | 8.54 kB

Server bundles
Initial chunk files | Names           | Raw size
main.server.mjs     | main.server      | 49.75 kB
server.mjs           | server           | 1.81 kB
polyfills.server.mjs | polyfills.server | 243 bytes

Application bundle generation complete. [1.601 seconds] - 2026-02-11T11:11:25.849Z

Watch mode enabled. Watching for file changes...
NOTE: Raw file sizes do not reflect development server per-request transformations.
→ Local: http://localhost:4200/
→ press h + enter to show help

C:\Users\trish\personal-finance-tracker\personal-finance-tracker>ng serve --open
Browser bundles
Initial chunk files | Names           | Raw size
main.js              | main             | 8.45 kB
styles.css            | styles           | 95 bytes
                                         | Initial total   | 8.54 kB

Server bundles
Initial chunk files | Names           | Raw size
main.server.mjs     | main.server      | 49.75 kB
server.mjs           | server           | 1.81 kB
polyfills.server.mjs | polyfills.server | 243 bytes

Application bundle generation complete. [1.641 seconds] - 2026-02-11T11:14:11.249Z

Watch mode enabled. Watching for file changes...
NOTE: Raw file sizes do not reflect development server per-request transformations.
→ Local: http://localhost:4200/
```

```
→ press n + enter to show help
Initial chunk files | Names | Raw size
styles.css           | styles | 237 bytes |

Application bundle generation complete. [0.024 seconds] - 2026-02-11T11:15:03.134Z

Stylesheet update sent to client(s).
Initial chunk files | Names | Raw size
main.js              | main   | 11.50 kB |

Application bundle generation complete. [0.357 seconds] - 2026-02-11T11:15:36.151Z

Page reload sent to client(s).

C:\Users\trish\personal-finance-tracker\personal-finance-tracker>ng serve --open
Browser bundles
Initial chunk files | Names          | Raw size
main.js             | main           | 11.50 kB |
styles.css          | styles         | 237 bytes |
                  | Initial total | 11.73 kB

Server bundles
Initial chunk files | Names          | Raw size
main.server.mjs     | main.server    | 49.75 kB |
server.mjs          | server         | 1.81 kB |
polyfills.server.mjs| polyfills.server| 243 bytes |

Application bundle generation complete. [1.780 seconds] - 2026-02-11T11:15:59.092Z

Watch mode enabled. Watching for file changes...
NOTE: Raw file sizes do not reflect development server per-request transformations.
  → Local: http://localhost:4200/
  → press h + enter to show help

C:\Users\trish\personal-finance-tracker\personal-finance-tracker>cd personal-finance-tracker
The system cannot find the path specified.

C:\Users\trish\personal-finance-tracker\personal-finance-tracker>git init
'git' is not recognized as an internal or external command,
```

```
Watch mode enabled. Watching for file changes...
NOTE: Raw file sizes do not reflect development server per-request transformations.
  → Local: http://localhost:4200/
  → press h + enter to show help

C:\Users\trish\personal-finance-tracker\personal-finance-tracker>cd personal-finance-tracker
The system cannot find the path specified.

C:\Users\trish\personal-finance-tracker\personal-finance-tracker>git init
'git' is not recognized as an internal or external command,
operable program or batch file.

C:\Users\trish\personal-finance-tracker\personal-finance-tracker>
```

Finance Tracker

Add Income

0

Add

Add Expense

0

Add

Summary

Total Income: ₹ 0

Total Expenses: ₹ 0

Balance: ₹ 0

Income List

Expense List

Add Income

4567

Add

Add Expense

0

Add

Summary

Total Income: ₹ 2345

Total Expenses: ₹ 67

Balance: ₹ 2278