ForgeTrace Executive Summary

ForgeTrace Client

Engagement Window: Not Specified

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1. Executive Overview

TOTAL LOC INVENTORIED

0

FOREGROUND LOC

0

ESTIMATED REWRITE COST (USD)

$0.00

ESTIMATED SCHEDULE (DAYS)

0

THIRD-PARTY COMPONENTS

171

OPEN FINDINGS (SECURITY/IP)

2

HIGH-RISK LICENSES

0

CLEAN-ROOM CANDIDATES

0

Key Risks: Potential provenance conflicts

Stakeholder Questions Covered: Is attribution coverage sufficient for planned disclosures?; Do we have sign-off on SBOM accuracy for transaction disclosures?

2. Engagement Context & Scope

Assessment Scope

- Source code, licenses, and dependency manifests supplied in audit bundle.
- Historical git metadata (authors, churn, timeline).
- ForgeTrace scanners across secrets, SAST, similarity, and licenses.

> **Key Deliverables**
>
> - Executive summary narrative (PDF/HTML).
> - Machine-readable SBOM extracts (JSON).
> - Risk, license, and rewriteability analytics.

> Methodology Summary: ForgeTrace executed automated scanners and manual analytics to surface provenance, license, and security risks.

3. IP Inventory and Provenance

Origin Breakdown

ORIGIN	FILES	SHARE
unknown	0	0.0%

IP Contribution Highlights

MODULE	ORIGIN	PRIMARY AUTHOR	LICENSE	REWRITEABLE	SCORE	LOC
No modules analysed	-	-	-	-	0.00	0

> Provenance Insights: Huyen Nguyen leads with 1 commits across 17185 files.

4. Dependency & License Compliance

Dependency Inventory

NAME	VERSION	TYPE	SOURCE
@aws-sdk/client-ses	3.521.0	node	repo_audit/freecodecamp/ source/api/package.json
@babel/plugin-proposal-export-default-from	7.23.3	node	repo_audit/freecodecamp/ source/client/package.json

NAME	VERSION	TYPE	SOURCE
@babel/plugin-proposal-function-bind	7.23.3	node	repo_audit/freecodecamp/source/client/package.json
@babel/plugin-transform-runtime	^7.19.6	node	repo_audit/freecodecamp/source/client/package.json
@babel/preset-env	7.23.7	node	repo_audit/freecodecamp/source/client/package.json
@babel/preset-react	7.23.3	node	repo_audit/freecodecamp/source/client/package.json
@babel/preset-typescript	7.23.3	node	repo_audit/freecodecamp/source/client/package.json
@babel/standalone	7.23.7	node	repo_audit/freecodecamp/source/client/package.json
@codesandbox/sandpack-react	2.6.9	node	repo_audit/freecodecamp/source/client/package.json
@codesandbox/sandpack-themes	2.0.21	node	repo_audit/freecodecamp/source/client/package.json
@fastify/accepts	5.0.2	node	repo_audit/freecodecamp/source/api/package.json
@fastify/cookie	11.0.1	node	repo_audit/freecodecamp/source/api/package.json
@fastify/csrf-protection	7.1.0	node	repo_audit/freecodecamp/source/api/package.json
@fastify/oauth2	8.1.2	node	repo_audit/freecodecamp/source/api/package.json
@fastify/swagger	9.4.0	node	repo_audit/freecodecamp/source/api/package.json
@fastify/swagger-ui	5.2.0	node	repo_audit/freecodecamp/source/api/package.json
@fastify/type-provider-typebox	6.1.0	node	repo_audit/freecodecamp/source/api/package.json
@fortawesome/fontawesome-svg-core	6.7.1	node	repo_audit/freecodecamp/source/client/package.json
@fortawesome/free-brands-svg-icons	6.7.1	node	repo_audit/freecodecamp/source/client/package.json
@fortawesome/free-solid-svg-icons	6.7.1	node	repo_audit/freecodecamp/source/client/package.json

NAME	VERSION	TYPE	SOURCE
@fortawesome/react-fontawesome	0.2.2	node	repo_audit/freecodecamp/source/client/package.json
@freecodecamp/curriculum-helpers	^7.1.0	node	repo_audit/freecodecamp/source/tools/client-plugins/browser-scripts/package.json
@freecodecamp/loop-protect	3.0.0	node	repo_audit/freecodecamp/source/client/package.json
@freecodecamp/ui	4.3.0	node	repo_audit/freecodecamp/source/client/package.json
@gatsbyjs/reach-router	1.3.9	node	repo_audit/freecodecamp/source/client/package.json
@growthbook/growthbook	1.3.1	node	repo_audit/freecodecamp/source/api/package.json
@growthbook/growthbook-react	1.6.0	node	repo_audit/freecodecamp/source/client/package.json
@headlessui/react	1.7.19	node	repo_audit/freecodecamp/source/client/package.json
@loadable/component	5.16.3	node	repo_audit/freecodecamp/source/client/package.json
@prisma/client	6.16.2	node	repo_audit/freecodecamp/source/api/package.json
@redux-devtools/extension	3.3.0	node	repo_audit/freecodecamp/source/client/package.json
@redux-saga/core	^1.2.2	node	repo_audit/freecodecamp/source/client/package.json
@reduxjs/toolkit	2.8.2	node	repo_audit/freecodecamp/source/client/package.json
@sentry/node	9.1.0	node	repo_audit/freecodecamp/source/api/package.json
@stripe/react-stripe-js	1.16.5	node	repo_audit/freecodecamp/source/client/package.json
@stripe/stripe-js	1.54.2	node	repo_audit/freecodecamp/source/client/package.json
@vitejs/plugin-react	4.2.1	node	repo_audit/freecodecamp/source/tools/challenge-editor/client/package.json

NAME	VERSION	TYPE	SOURCE
ajv	8.17.1	node	repo_audit/freecodecamp/source/api/package.json
ajv-formats	3.0.1	node	repo_audit/freecodecamp/source/api/package.json
algoliasearch	4.22.1	node	repo_audit/freecodecamp/source/client/package.json
assert	2.0.0	node	repo_audit/freecodecamp/source/client/package.json
babel-plugin-preval	5.1.0	node	repo_audit/freecodecamp/source/client/package.json
babel-plugin-prismjs	2.1.0	node	repo_audit/freecodecamp/source/client/package.json
bezier-easing	2.1.0	node	repo_audit/freecodecamp/source/client/package.json
browser-cookies	1.2.0	node	repo_audit/freecodecamp/source/client/package.json
canvas-confetti	^1.6.0	node	repo_audit/freecodecamp/source/client/package.json
codemirror	5.65.16	node	repo_audit/freecodecamp/source/tools/challenge-editor/client/package.json
cors	2.8.5	node	repo_audit/freecodecamp/source/tools/challenge-editor/api/package.json
crypto-browserify	3.12.0	node	repo_audit/freecodecamp/source/client/package.json
date-fns	4.1.0	node	repo_audit/freecodecamp/source/api/package.json

Total dependencies detected: 171 across 7 manifests.

Top Packages by Surface Area

- @aws-sdk/client-ses (1 reference)
- @babel/plugin-proposal-export-default-from (1 reference)
- @babel/plugin-proposal-function-bind (1 reference)
- @babel/plugin-transform-runtime (1 reference)
- @babel/preset-env (1 reference)

> **Dependency Observations**
>
> - Detected 171 package entries across 7 manifests.
> - node ecosystem represents 50 components in scope.

License Posture

LICENSE	OCCURRENCES	FILES
BSD-3-Clause	1	repo_audit/freecodecamp/source/LICENSE.md

> **License Obligations**
>
> - Ensure SPDX attributions accompany third-party packages in outbound deliverables.
> - Track dependency provenance in data rooms alongside SBOM exports.
> - Confirm permissive-license notices remain within corporate policy thresholds.

> **Recommended Counsel Actions**
>
> - Review updated SBOM with legal counsel before diligence disclosures.

5. Authorship & Development Activity

Top Contributors

AUTHOR	COMMITS	LINES ADDED	LINES REMOVED	FILES TOUCHED
Huyen Nguyen	1	2374224	0	17185

Commit window: 2025-10-30

Authorship Insights

- Net code delta for lead contributor: +2,374,224 lines.

Historical Milestones

- Initial commit observed 2025-10-30.

6. Rewriteability & Clean Room Planning

AVERAGE REWRITE SCORE

0.00

HIGH-RISK MODULES

0

CANDIDATE MODULES (SCORE ≥ 0.75)

0

Clean Room Recommendations

- No critical rewrite blockers detected; maintain periodic reassessment alongside refactors.

Priority Modules to Shield

- No critical modules identified.

> **Clean-Room Playbook Tasks**
>
> - Document clean-room brief per high priority module.
> - Assign independent implementers for guarded rewrites.
> - Track escrow-ready deliverables with counsel oversight.

7. Security, Similarity & Risk Heat Map

	HIGH	MEDIUM	LOW
SECURITY	0	0	1
IP / LICENSE	0	1	0
OPERATIONAL	1	1	0

AREA	COUNT	SEVERITY	NOTES
Secrets	0	NONE	No hardcoded secrets detected.
SAST	0	NONE	Static analysis returned no actionable findings.
Similarity	2	MEDIUM	Assess overlapping code for prior art or third-party contamination.

> **Security Focus**
>
> - Secrets scanner found no embedded credentials in scope.
> - SAST baseline clean; maintain guardrails in CI pipelines.

> **Similarity Focus**
>
> - Top match module-step-route.ts ↔ step-route.ts (100.0%).
> - 2 code pairs exceeded similarity thresholds; evaluate provenance.

Representative Similarity Pairs

FILE A	FILE B	SIMILARITY
module-step-route.ts	step-route.ts	1.00

FILE A	FILE B	SIMILARITY
format.js	format.js	0.77

8. Strategic Next Steps

1. Maintain continuous SBOM updates as dependencies evolve across sprints.

9. Appendix

Tooling Footprint

- ForgeTrace scanners: SBOM, license, secrets, SAST, similarity, git provenance.
- WeasyPrint-rendered executive PDF via Jinja2 templates.

Data Coverage

- SBOM captured 171 package entries across 7 manifests.
- Security scanners surfaced 2 aggregate findings across secrets, SAST, and similarity modules.
- Git analytics derived from repository metadata supplied in audit bundle.

Open Questions for Stakeholders

- Is attribution coverage sufficient for planned disclosures?
- Do we have sign-off on SBOM accuracy for transaction disclosures?

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