

Code Files Status: What You Have vs What You Need

Core Components (for both server and client)

Client-Side Components

Server-Side Components

Dataset Integration

Testing Framework

Advanced Features

X Code Files You Still Need to Create

Server-Side Missing Files

API Routes (server/api/)

```
# server/api/__init__.py
# server/api/auth_routes.py - MISSING
# server/api/voting_routes.py - MISSING
# server/api/admin_routes.py - MISSING
```

Middleware (server/middleware/)

```
# server/middleware/__init__.py
# server/middleware/security_middleware.py - MISSING
# server/middleware/rate_limiting.py - MISSING
```

Main Flask Application

```
# app.py - MISSING (server entry point)
```

Client-Side Missing Files

Communication Layer (client/communication/)

```
# client/communication/__init__.py
# client/communication/server_client.py - MISSING
# client/communication/secure_channel.py - MISSING
```

User Interface (ui/)

```
# ui/cli/voter_cli.py - MISSING
# ui/cli/admin_cli.py - MISSING
# ui/cli/test_cli.py - MISSING
# ui/gui/main_window.py - MISSING
# ui/gui/voting_interface.py - MISSING
# ui/gui/test_interface.py - MISSING
# ui/gui/test_interface.py - MISSING
# ui/web/web_client.py - MISSING
```

Main Client Application

```
# main.py - MISSING (client entry point)
```

Security Components (security/)

```
# security/key_management.py - MISSING
# security/secure_storage.py - MISSING
```

Additional Testing Files (testing/)

```
# testing/performance_tests.py - MISSING
# testing/security_analysis.py - MISSING
```

Utility Scripts (scripts/)

```
# scripts/start_server.py - MISSING
# scripts/backup_data.py - MISSING
# scripts/load_dataset.py - MISSING
# scripts/run_tests.py - MISSING
# scripts/generate_reports.py - MISSING
# scripts/utilities/data_preprocessing.py - MISSING
# scripts/utilities/feature_extraction.py - MISSING
# scripts/utilities/result_analysis.py - MISSING
```

Configuration Files

```
# config/server_config.yaml - MISSING
# config/client_config.yaml - MISSING
# config/database_config.yaml - MISSING
```

Setup Scripts

```
# scripts/setup_server.sh - PROVIDED (in directory structure)
# scripts/setup_client.sh - PROVIDED (in directory structure)
```

Requirements Files

```
# requirements.txt - PROVIDED (in directory structure)
```

Summary Breakdown

What You Have (13/45 files ~ 29%)

- **Core voting system** (5 files)
- \(\text{Client-side processing} \) (4 files)
- **Server-side processing** (3 files)
- **Dataset integration** (2 files)
- **Zesting framework** (1 file)
- Security features (1 file)

What You Need to Create (32/45 files ~ 71%)

- X API routes and middleware (6 files)
- **X Communication layer** (2 files)
- **X User interfaces** (7 files)
- **X** Entry point applications (2 files)
- X Security management (2 files)
- **X** Additional testing (2 files)
- **X Utility scripts** (8 files)
- **X Configuration files** (3 files)

Priority Order for Implementation

High Priority (Essential for Basic Functionality)

- 1. app.py Server entry point
- 2. main.py Client entry point
- 3. server/api/auth_routes.py Authentication API
- 4. server/api/voting_routes.py Voting API

- 5. client/communication/server_client.py Server communication
- 6. Configuration files (server_config.yaml, client_config.yaml)

Medium Priority (For Complete Functionality)

- 7. scripts/load_dataset.py Dataset loading
- 8. scripts/run_tests.py Test execution
- 9. ui/cli/ files Command line interfaces
- 10. Security and middleware components

Low Priority (Nice to Have)

- 11. GUI interfaces
- 12. Web interfaces
- 13. Advanced utility scripts
- 14. Comprehensive reporting tools

Would you like me to provide the code for any of these missing files, starting with the highpriority ones?