


Multi-Agent Code Analysis & Documentation System

Authentication and Signup Flow

- Signup/Registration flow for new users
- Login as either User or Admin
- User sees their own projects

Deploy ⓘ

 **Welcome Back**

Intelligent Code Analysis Platform

Demo Account:

Email: demo@example.com

Password: demo123456

Email Address

you@example.com

Password

Enter your password

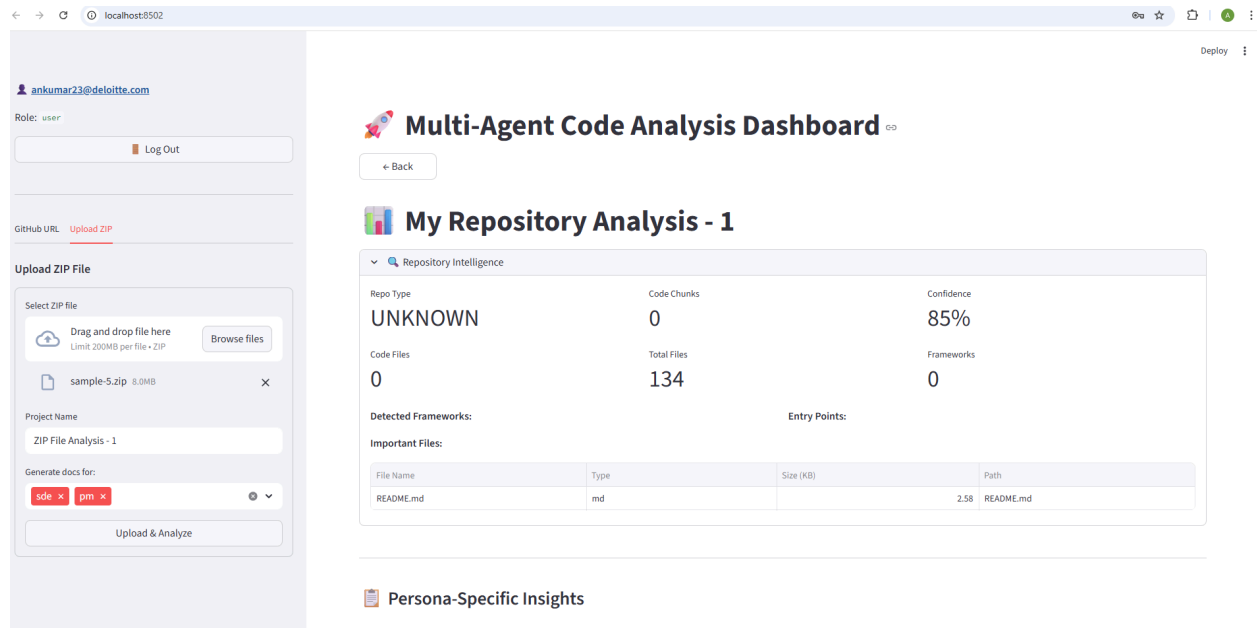
☐ Remember me

Log In

Don't have an account? [Create one now](#)

Create New Account

- Uploads codebase (ZIP or GitHub URL)



- Selects target personas (SDE, PM, or both)

- User-controlled analysis flow with interactive pause/resume
- Initiates analysis
- See project created with unique identifier
- Files that are too large (define reasonable limit, e.g., 100MB)

ankumar23@deloitte.com

Role: user

Log Out

GitHub URL Upload ZIP

Upload ZIP File

Select ZIP file

Drag and drop file here

Limit 200MB per file • ZIP

Browse files

sample-5... 8.0MB

Project Name

ZIP File Analysis - 2

Generate docs for:

sde x

pm x

Upload & Analyze

ID: 3b93b746-9684-48bb-8ef6-e6edf5867888

GitHub: <https://github.com/ankumar23-bloq/Multi-Agent-Code-Analysis-Documentation-System>

Personas: SDE, PM

X Status: FAILED

Error: 'dict' object has no attribute 'name'

Created: 2025-12-11

View Details

ZIP File Analysis - 1

ID: ca478999-e695-473e-a522-4d7c93586516

Uploaded ZIP: sample-5.zip

Personas: SDE, PM

✓ Status: COMPLETED

Created: 2025-12-11

View Details

ID: 25e113e9-605a-4a92-b386-55fiec54a612

GitHub: <https://github.com/ankumar23-bloq/Multi-Agent-Code-Analysis-Documentation-System>

Personas: SDE

X Status: FAILED

Error: 'dict' object has no attribute 'name'

Created: 2025-12-11

View Details

ZIP File Analysis - 2

ID: b998cfe4-4ef1-492f-88e7-8966bed57ff9

Uploaded ZIP: sample-5.zip

Personas: SDE, PM

Status: ANALYZING

Detecting frameworks...

45%

Created: 2025-12-11

View Details

- Views structured reports per persona

ankumar23@deloitte.com

Role: user

Log Out

GitHub URL

Upload ZIP

Upload ZIP File

Select ZIP file

Drag and drop file here

Limit: 200MB per file • ZIP

Browse files

sample-5.zip

8.0MB

X

Project Name

ZIP File Analysis - 1

Generate docs for:

sde

pm

X

X

Upload & Analyze

Deploy

Persona-Specific Insights

SDE Analysis PM Analysis

Software Development Engineer Analysis

Project Summary:

This is a **UNKNOWN** project with the following characteristics:

- **Language:** UNKNOWN
- **Total Files:** 134
- **Code Files:** 0
- **Functions/Classes:** 0
- **Frameworks:** None detected
- **Complexity Level:** Low
- **Entry Points:** 0 found
 - **Languages Detected:** Unknown

Key Characteristics:

- **Average function size:** ~0.0 lines
- **Configuration files:** 0
- **Dependencies:** 0
- **Confidence Score:** 85%

Architecture Pattern:

Framework Stack:

ankumar23@deloitte.com

Role: user

Log Out

GitHub URL

Upload ZIP

Upload ZIP File

Select ZIP file

Drag and drop file here

Limit: 200MB per file • ZIP

Browse files

sample-5.zip

8.0MB

X

Project Name

ZIP File Analysis - 1

Generate docs for:

sde

pm

X

X

Upload & Analyze

Deploy

Key Characteristics:

- **Average function size:** ~0.0 lines
- **Configuration files:** 0
- **Dependencies:** 0
- **Confidence Score:** 85%

Architecture Pattern:

Framework Stack:

Custom

None

>

Technical Details

>

Code Quality

>

SDE Recommendations

>

Key Files for SDE

▼

Code Chunks

Total Chunks: 0

▼

Code Search

Search code

e.g., 'authentication', 'database', 'api endpoints'...

ankumar23@deloitte.com

Role: user

Log Out

GitHub URL

Upload ZIP

GitHub Repository

Project Name

My Repository Analysis - 1

GitHub URL

https://github.com/vivek9patel/vivek9patel.github.io

Generate docs for:

sde

pim

Description (optional)

GitHub Repository Analysis - 1

Create Project

ankumar23@deloitte.com

Role: user

Log Out

GitHub URL

Upload ZIP

GitHub Repository

Project Name

My Repository Analysis - 1

GitHub URL

https://github.com/vivek9patel/vivek9patel.github.io

Generate docs for:

sde

pim

Description (optional)

GitHub Repository Analysis - 1

Create Project

Persona-Specific Insights

SDE Analysis

PM Analysis

Product Manager Analysis

Project Overview:

This is a General-purpose Application built with Custom implementation.

Project Scope:

Total Files: 134

Code Implementation Files: 0

Key Functions/Features: 0

Technology Stack: UNKNOWN

Deployment Type: Traditional Server/Cloud

Configuration Files: 0

README Summary:

This is a personal portfolio website of theme Ubuntu 20.04, made using Next.js & tailwind CSS. If you want to edit this. Clone this project and edit the files in `/src/components`.

Scale & Complexity:

Repository contains 0 implementation files across 0 entry points

0 external dependencies integrated

Confidence in analysis: 85%

Key Capabilities Identified:

Based on code analysis, this project implements core functionality in UNKNOWN with detected frameworks: Custom implementation

Identified Features

Authentication:

Not detected

Data Management:

Not detected

Key Capabilities Identified:

Based on code analysis, this project implements core functionality in UNKNOWN with detected frameworks: Custom implementation

Identified Features

Authentication:

Not detected

Data Management:

Not detected

API Endpoints:

Not detected

User Flows

Primary Flows:

User Authentication

Data Access/Query

Content Creation/Update

System Integration

Error Handling & Logging

Entry Mechanisms:

Business Logic

Core Functions:

Business Rules:

Input validation and sanitization

Access control and permissions

ankumar23@deloitte.com

Role: user

Log Out

GitHub URL

Upload ZIP

GitHub Repository

Project Name

My Repository Analysis - 1

GitHub URL

https://github.com/vivek9patel/vivek9patel.github.io

Generate docs for:

sde

pm

Description (optional)

GitHub Repository Analysis - 1

Create Project

• Implement caching layer for frequently accessed data

• Consider database indexing strategy

• Monitor performance metrics

• Plan for horizontal scaling

PM Recommendations

1. Document feature capabilities for customer-facing materials

2. Identify and prioritize technical debt for future sprints

3. Plan user documentation based on identified workflows

4. Consider expansion opportunities based on current architecture

5. Evaluate third-party integration opportunities

6. Plan for scalability improvements if user growth is expected

Stakeholders

Key Stakeholders:

• Product Owner

• Engineering Lead

• DevOps Team

Code Chunks

Total Chunks: 0

Deploy

- Explores visual diagrams

ankumar23@deloitte.com

Role: user

Log Out

GitHub URL

Upload ZIP

Upload ZIP File

Select ZIP file

Drag and drop file here

Limit 200MB per file • ZIP

Browse files

sample-5...

8.0MB

Project Name

ZIP File Analysis - 2

Generate docs for:

sde

pm

Upload & Analyze

Add Context

Deploy

Visual Diagrams & Export

Load Diagrams

Export Markdown

Export PDF (demo)

Flowchart Diagram

```
flowchart LR
  A[Users] -->|HTTP| B[Service]
  B --> C[Business Logic]
  C --> D[Data Layer]
  D --> E[(Storage)]
```

Flow Diagram

```
flowchart TD
  start([Start]) --> detect{Detect Frameworks}
  detect -->|Yes| analyze[Analyze Important Files]
  analyze --> extract[Extract Code Chunks]
  extract --> end([End])
  detect -->|No| end
```

Sequence Diagram

```
sequenceDiagram
  participant U as User
  participant API as API
  participant S as Analyzer
  U->>API: Create Project
  API->>S: Start Analysis
  S->>API: Progress Updates
  API->>U: Activity Feed + Progress
```

Er Diagram

- Asks follow-up questions

Role: user

Log Out

GitHub URL

Upload ZIP

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Browse files

sample-5...
8.0MB

Project Name

ZIP File Analysis - 1

Generate docs for:

sde

pm

Upload & Analyze

ZIP File Analysis - 1

Repository Intelligence

Repo Type

UNKNOWN

Code Chunks

0

Confidence

85%

Code Files

0

Total Files

7

Frameworks

0

Detected Frameworks:

Entry Points:

Interactive Q&A and Context

Ask about current analysis or codebase

Your question

What are you analyzing right now?

Ask

Add guidance to influence analysis

Instruction

Focus more on the payment module

Priority

normal

Add Context

Visual Diagrams & Export

Load Diagrams

Export Markdown

Export PDF (demo)

- Downloads documentation in multiple formats

Role: user

Log Out

GitHub URL

Upload ZIP

Upload ZIP File

Select ZIP file

Drag and drop file here

Limit 200MB per file • ZIP

Browse files

sample-5...
8.0MB

Project Name

ZIP File Analysis - 1

Generate docs for:

sde

pm

Upload & Analyze

Add Context

Visual Diagrams & Export

Load Diagrams

Export Markdown

Export PDF (demo)

PDF generation with rendered Mermaid is not implemented in this demo build.

Download PDF (raw md content)

Persona-Specific Insights

SDE Analysis

PM Analysis

Software Development Engineer Analysis

Project Summary:

This is a **UNKNOWN** project with the following characteristics:

• Language: UNKNOWN

• Total Files: 7

• Code Files: 0

• Functions/Classes: 0

• Frameworks: None detected

ankumar23@deloitte.com

Role: user

Log Out

GitHub URL Upload ZIP

Upload ZIP File

Select ZIP file

Drag and drop file here

Limit 200MB per file • ZIP

Browse files

sample-5... 8.0MB

Project Name

ZIP File Analysis - 2

Generate docs for:

sde

pm

Upload & Analyze

Add Context

Deploy

Visual Diagrams & Export

Load Diagrams

Export Markdown

Export PDF (demo)

Download .md

Persona-Specific Insights

SDE Analysis PM Analysis

Software Development Engineer Analysis

Project Summary:

This is a **UNKNOWN** project with the following characteristics:

- Language: UNKNOWN
- Total Files: 7
- Code Files: 0
- Functions/Classes: 0
- Frameworks: None detected
- Complexity Level: Low
- Entry Points: 0 found

ankumar23@deloitte.com

Role: user

Log Out

GitHub URL Upload ZIP

Upload ZIP File

Select ZIP file

Drag and drop file here

Limit 200MB per file • ZIP

Browse files

sample-5... 8.0MB

Project Name

ZIP File Analysis - 2

Generate docs for:

sde

pm

Upload & Analyze

Add Context

Deploy

Visual Diagrams & Export

Load Diagrams

Export Markdown

Export PDF (demo)

Download .md

Persona-Specific Insights

SDE Analysis PM Analysis

Software Development Engineer Analysis

Project Summary:

This is a **UNKNOWN** project with the following characteristics:

- Language: UNKNOWN
- Total Files: 7
- Code Files: 0
- Functions/Classes: 0
- Frameworks: None detected
- Complexity Level: Low
- Entry Points: 0 found

ankumar23@defoitte.com

Role: user

Log Out

GitHub URL

Upload ZIP

Upload ZIP File

Select ZIP file

Drag and drop file here

Limit 200MB per file • ZIP

Browse files

multiage...

13.6KB

Project Name

Multi-Agent-Codebase-A

Generate docs for:

sde

Upload & Analyze

Multi-Agent-Codebase-Analysis

Uploaded ZIP: multiagent_code_analysis_project.zip

Repository Intelligence

Repo Type

PYTHON

Code Files

17

Detected Frameworks:

• FASTAPI

Important Files:

File Name	Type	Size (KB)	Path
README.md	md	0.15	dashboard/README.md
README.md	md	0.56	backend/README.md
README.md	md	1.79	README.md
main.py	py	0.55	backend/main.py
app.py	py	1.32	dashboard/app.py

Code Chunks

16

Total Files

43

Confidence

85%

Frameworks

1

Entry Points:

• backend/main.py

• dashboard/app.py

• backend/requirements.txt

• dashboard/requirements.txt

ankumar23@defoitte.com

Role: user

Log Out

GitHub URL

Upload ZIP

Upload ZIP File

Select ZIP file

Drag and drop file here

Limit 200MB per file • ZIP

Browse files

multiage...

13.6KB

Project Name

Multi-Agent-Codebase-A

Generate docs for:

sde

Upload & Analyze

Deploy

• dashboard/requirements.txt

Important Files:

File Name	Type	Size (KB)	Path
README.md	md	0.15	dashboard/README.md
README.md	md	0.56	backend/README.md
README.md	md	1.79	README.md
main.py	py	0.55	backend/main.py
app.py	py	1.32	dashboard/app.py
requirements.txt	txt	0.14	backend/requirements.txt
requirements.txt	txt	0.03	dashboard/requirements.txt
requirements.txt	txt	0.14	backend/requirements.txt
requirements.txt	txt	0.03	dashboard/requirements.txt
Dockerfile	no-extension	0.14	backend/Dockerfile

Interactive Q&A and Context

Visual Diagrams & Export

Persona-Specific Insights

SDE Analysis

Software Development Engineer Analysis

ankumar23@deloitte.com

Role: user

Log Out

GitHub URL

Upload ZIP

Upload ZIP File

Select ZIP file

Drag and drop file here

Limit 200MB per file • ZIP

Browse files

multiage...

13.6KB

Project Name

Multi-Agent-Codebase-A

Generate docs for:

sde

Upload & Analyze

Persona-Specific Insights

SDE Analysis

Software Development Engineer Analysis

Project Summary:

This is a PYTHON project with the following characteristics:

- Language: PYTHON
- Total Files: 43
- Code Files: 17
- Functions/Classes: 16
- Frameworks: fastapi
- Complexity Level: Low
- Entry Points: 4 found
 - Languages Detected: python(17)

Key Characteristics:

- Average function size: ~1.7 lines
- Configuration files: 4
- Dependencies: 0
- Confidence Score: 85%

Architecture Pattern:

MVC/REST API

Framework Stack:

fastapi

ankumar23@deloitte.com

Role: user

Log Out

GitHub URL

Upload ZIP

Upload ZIP File

Select ZIP file

Drag and drop file here

Limit 200MB per file • ZIP

Browse files

multiage...

13.6KB

Project Name

Multi-Agent-Codebase-A

Generate docs for:

sde

Upload & Analyze

Architecture Pattern:

MVC/REST API

Framework Stack:

fastapi

Technical Details

Language: python

Dependencies: 0

Total Files

43

Code Files

17

Code Chunks

16

Code Quality

Code Structure Rating: Good - Clear structure with identifiable patterns

Dependency Health: Healthy - Minimal dependencies reduce maintenance burden

Suggested Improvements:

• Add unit tests for critical paths

• Document complex algorithms

• Consider adding type hints for better IDE support

• Implement error handling in key functions

• Add integration tests for external dependencies

SDE Recommendations

1. Review and update outdated dependencies

2. Implement comprehensive logging for debugging

ankumar23@deloitte.com

Role: user

Log Out

GitHub URL

Upload ZIP

Upload ZIP File

Select ZIP file

Drag and drop file here

Limit 200MB per file • ZIP

Browse files

multiage...
13.6KB

×

Project Name

Multi-Agent-Codebase-A

Generate docs for:

sde

×

⌵

Upload & Analyze

Deploy

SDE Recommendations

1. Review and update outdated dependencies

2. Implement comprehensive logging for debugging

3. Add API documentation if applicable

4. Set up automated testing pipeline

5. Consider refactoring large files

6. Implement design patterns for better maintainability

Key Files for SDE

• main.py (py)

• app.py (py)

• requirements.txt (txt)

• requirements.txt (txt)

• requirements.txt (txt)

• requirements.txt (txt)

• Dockerfile (no-extension)

• Dockerfile (no-extension)

• init.py (py)

Code Chunks

ankumar23@deloitte.com

Role: user

Log Out

GitHub URL

Upload ZIP

Upload ZIP File

Select ZIP file

Drag and drop file here

Limit 200MB per file • ZIP

Browse files

multiage...
13.6KB

×

Project Name

Multi-Agent-Codebase-A

Generate docs for:

sde

×

⌵

Upload & Analyze

Code Chunks

Total Chunks: 16

main.py (file)

backend/main.py:0-22

> View Code

app.py (file)

dashboard/app.py:0-35

> View Code

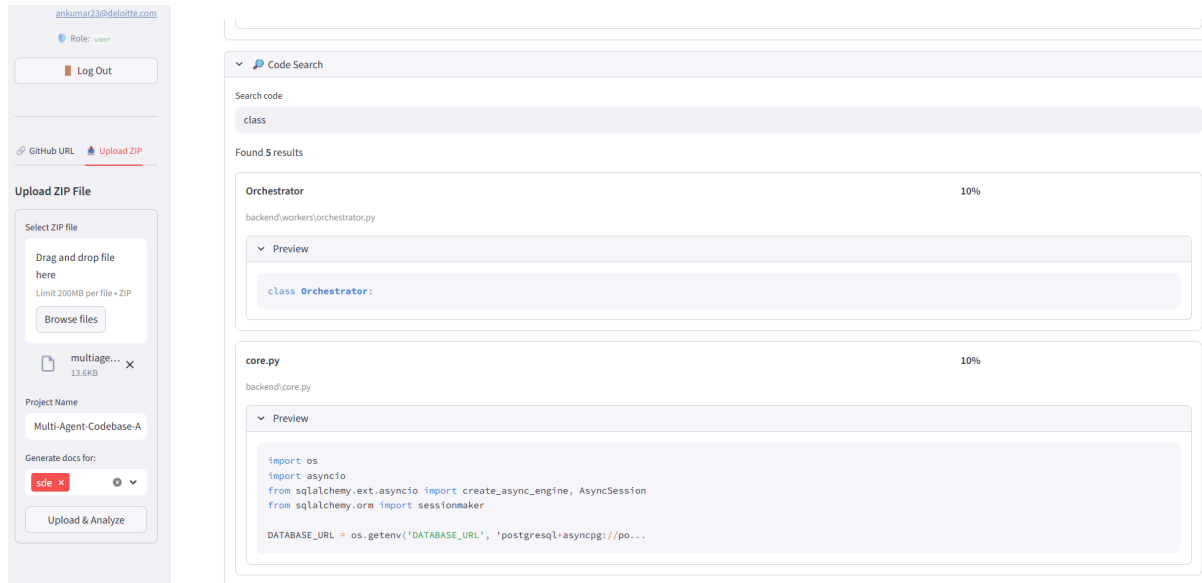
Orchestrator (class)

backend/workers/orchestrator.py:10-10

View Code

```
class Orchestrator:
```

init (function)



After Enhancing the UI

Email Address

ankumar23@deloitte.com

Password

☐ Remember me

Log In

✓ Logged in successfully!

Don't have an account?

Create New Account