

# Leveraging the AI Cockpit in the **Upstream**

## 1. REQUIREMENTS

- ▶ RAG Context
- ▶ Transcription of audio and video into text
- ▶ Creation of initiatives
- ▶ Creation of epics
- ▶ Creation of user stories

1.  
Project

2.  
Initiatives

3.  
Epics

4.  
User History

5.  
SUB-Tasks

The screenshot shows a web browser window with the URL <https://ai-cockpit.compass.uol>. The application header includes the AI Cockpit logo, navigation tabs for Requirement, Code, Quality Assurance, Metrics, and Data, and a user profile dropdown for 'AI Cockpit'. A left sidebar contains a menu with 'Project' (selected), Initiatives, Epics, Stories, and Other tools. The main content area is titled 'Edit Project' and contains the following sections:

- General information**: A section header.
- Select a board \***: A dropdown menu with the selected value 'AI Cockpit - Suite - Sprints' and a search icon.
- Name your project \***: A text input field containing 'Easy Credit Platform: Transforming Banking Loans'.
- Describe your project \***: A text area containing the description: 'The "Easy Credit Platform" is an innovative concept in the loan banking sector, aimed at revolutionizing how customers interact with credit services. Setting itself apart from traditional banks, this project aims to provide a simplified and personalized digital experience for loan applications.' Below the text area are rich text formatting icons: Bold (B), Italic (I), Underline (U), and List (☰).

At the bottom of the form are two buttons: 'Cancel' and 'Save'.

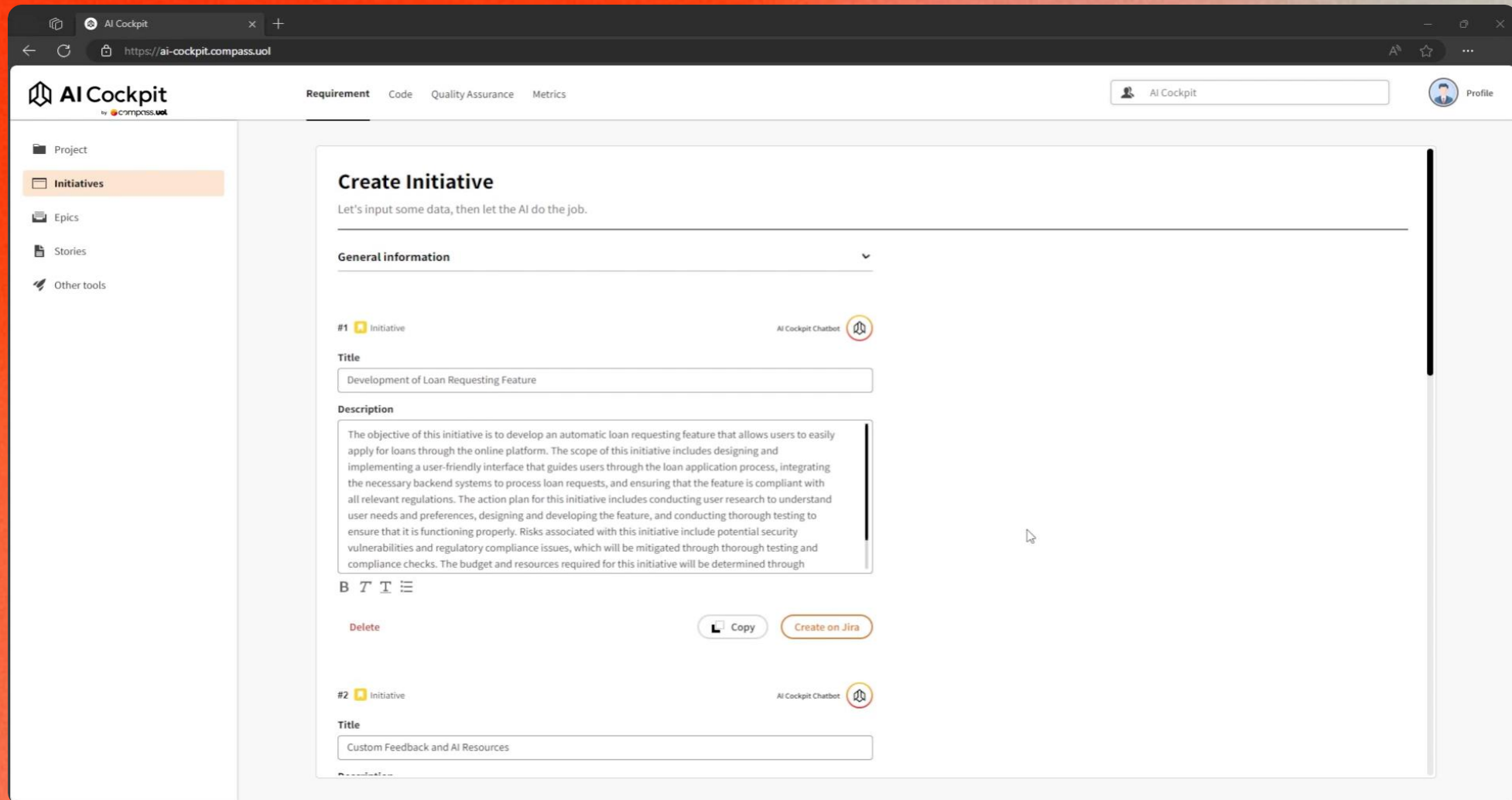
1.  
Project

2.  
Initiatives

3.  
Epics

4.  
User History

5.  
SUB-Tasks



The screenshot shows the AI Cockpit web application interface. The browser address bar displays <https://ai-cockpit.compass.uol>. The application header includes the AI Cockpit logo, navigation tabs for 'Requirement', 'Code', 'Quality Assurance', and 'Metrics', and a user profile dropdown for 'AI Cockpit'. A left sidebar contains a navigation menu with 'Project', 'Initiatives' (highlighted), 'Epics', 'Stories', and 'Other tools'. The main content area is titled 'Create Initiative' and includes the instruction 'Let's input some data, then let the AI do the job.' Below this is a 'General information' section with a dropdown arrow. It contains two initiative entries: '#1 Initiative' and '#2 Initiative'. Each entry has a title input field and a description text area. The first initiative's title is 'Development of Loan Requesting Feature' and its description is: 'The objective of this initiative is to develop an automatic loan requesting feature that allows users to easily apply for loans through the online platform. The scope of this initiative includes designing and implementing a user-friendly interface that guides users through the loan application process, integrating the necessary backend systems to process loan requests, and ensuring that the feature is compliant with all relevant regulations. The action plan for this initiative includes conducting user research to understand user needs and preferences, designing and developing the feature, and conducting thorough testing to ensure that it is functioning properly. Risks associated with this initiative include potential security vulnerabilities and regulatory compliance issues, which will be mitigated through thorough testing and compliance checks. The budget and resources required for this initiative will be determined through'. Below the description is a rich text editor with 'B', 'I', 'T', and a list icon. At the bottom of the form are 'Delete', 'Copy', and 'Create on Jira' buttons. The second initiative's title is 'Custom Feedback and AI Resources'.

INITIATIVES CREATION  
REQUIREMENTS

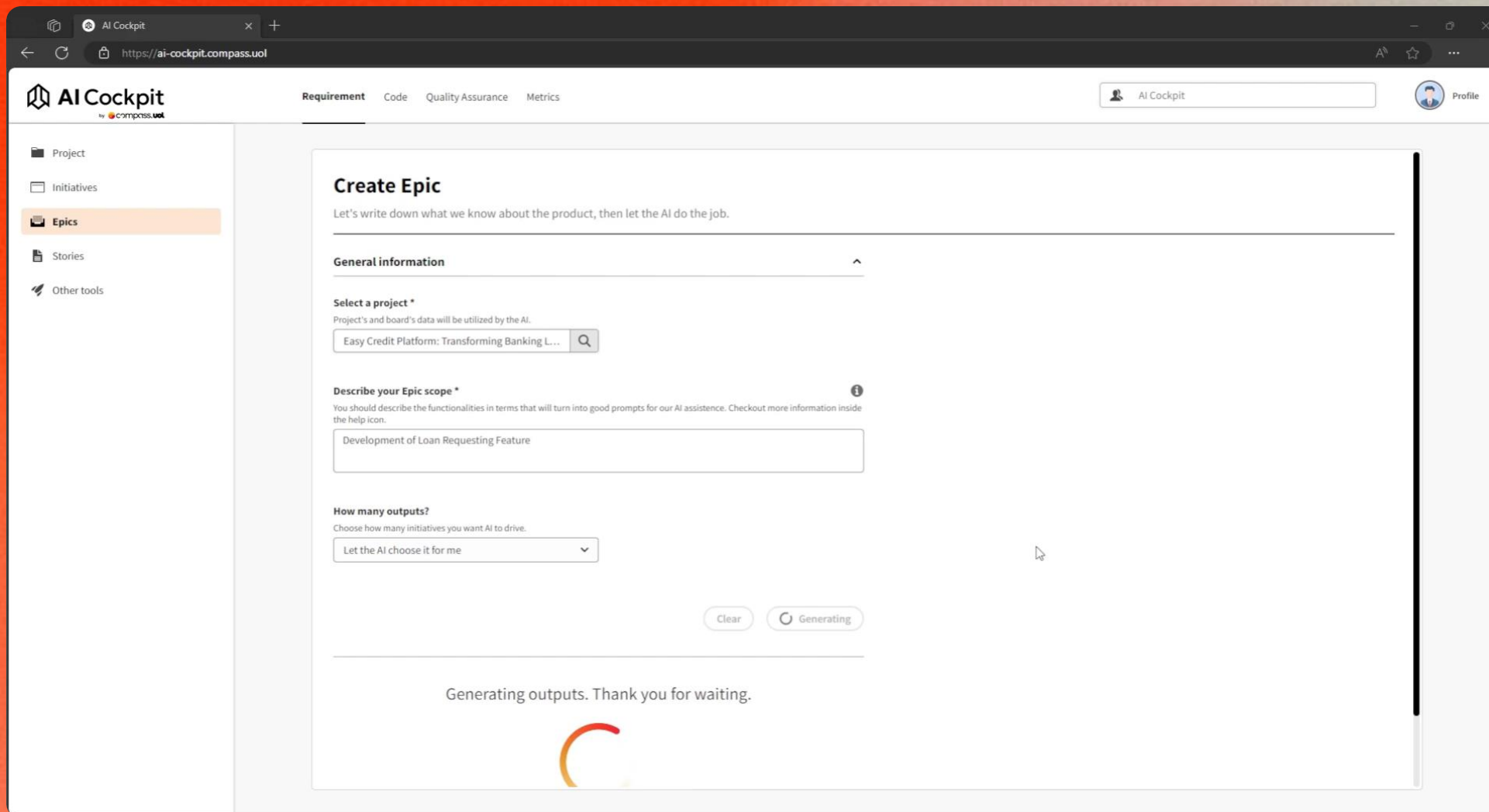
1.  
Project

2.  
Initiatives

3.  
Epics

4.  
User History

5.  
SUB-Tasks



The screenshot shows the AI Cockpit web application interface. The browser address bar displays 'https://ai-cockpit.compass.uol'. The application header includes the AI Cockpit logo, navigation tabs for 'Requirement', 'Code', 'Quality Assurance', and 'Metrics', and a user profile dropdown. A left sidebar contains a navigation menu with 'Project', 'Initiatives', 'Epics' (highlighted), 'Stories', and 'Other tools'. The main content area is titled 'Create Epic' and contains the following sections:

- General information**: A section header with an expand/collapse arrow.
- Select a project \***: A dropdown menu with the selected value 'Easy Credit Platform: Transforming Banking L...' and a search icon.
- Describe your Epic scope \***: A text input field containing 'Development of Loan Requesting Feature'. A help icon is visible to the right.
- How many outputs?**: A dropdown menu with the selected value 'Let the AI choose it for me'.

At the bottom of the form, there are 'Clear' and 'Generating' buttons. Below the form, a message reads 'Generating outputs. Thank you for waiting.' with a circular progress indicator.

INITIATIVES CREATION  
REQUIREMENTS

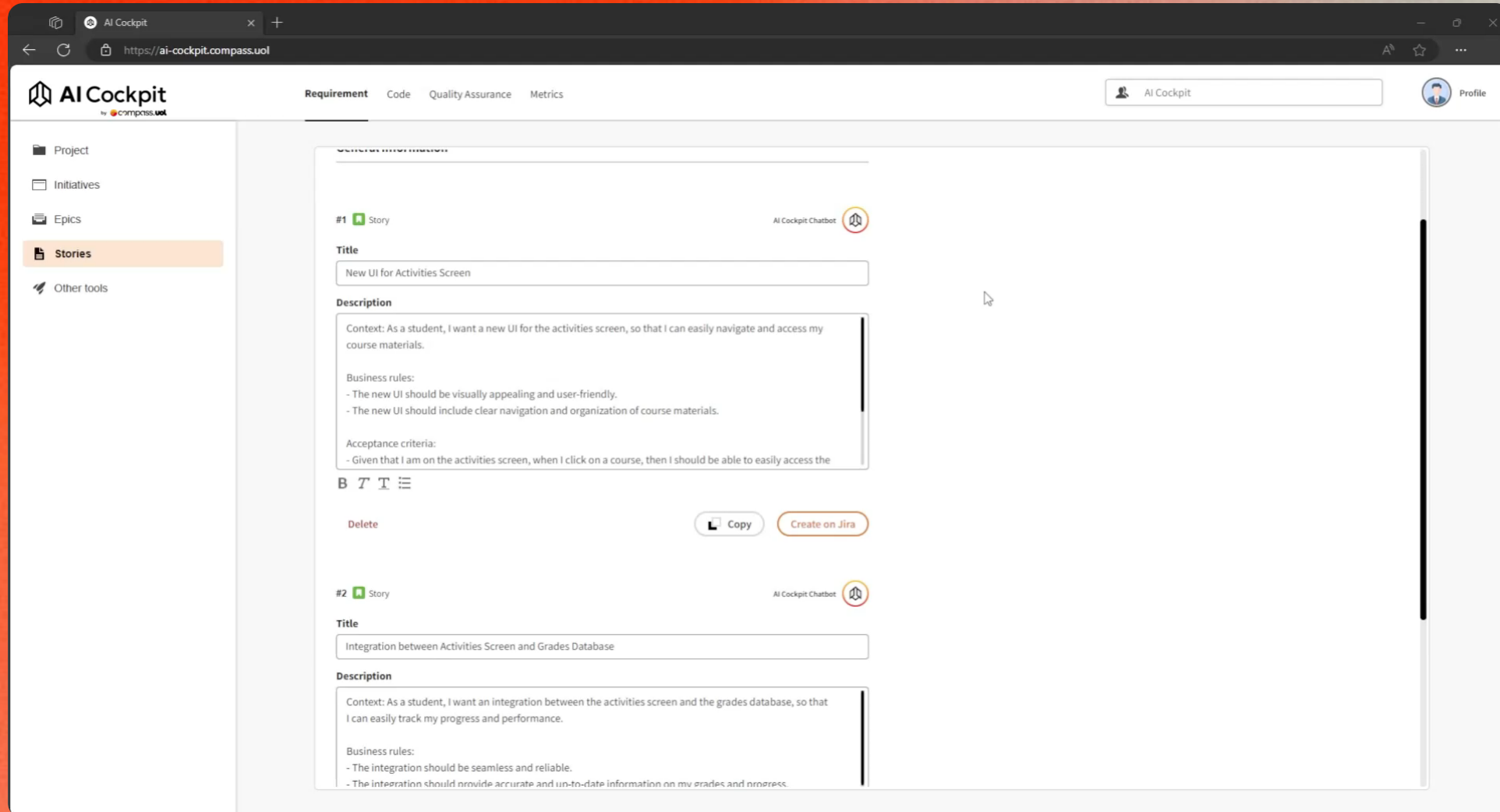
1.  
Project

2.  
Initiatives

3.  
Epics

4.  
User History

5.  
SUB-Tasks



The screenshot shows the AI Cockpit web application interface. The browser address bar displays <https://ai-cockpit.compass.uol>. The application header includes the AI Cockpit logo, navigation tabs for Requirement, Code, Quality Assurance, and Metrics, and a user profile dropdown for AI Cockpit. A left sidebar contains a navigation menu with Project, Initiatives, Epics, Stories (highlighted), and Other tools. The main content area displays a list of requirements. The first requirement is #1 Story, titled "New UI for Activities Screen". Its description includes context, business rules, and acceptance criteria. The second requirement is #2 Story, titled "Integration between Activities Screen and Grades Database", also with context, business rules, and acceptance criteria. Each requirement entry includes a "Delete" button, a "Copy" button, and a "Create on Jira" button. An "AI Cockpit Chatbot" icon is visible next to each requirement.

INITIATIVES CREATION  
REQUIREMENTS

# Leveraging the AI Cockpit in the **Downstream**

## 2. ARCHITECTURE & DESIGN

- ▶ Creation of sub-tasks
- ▶ Understanding of legacy codes
- ▶ Creation of brand persona
- ▶ Component generation

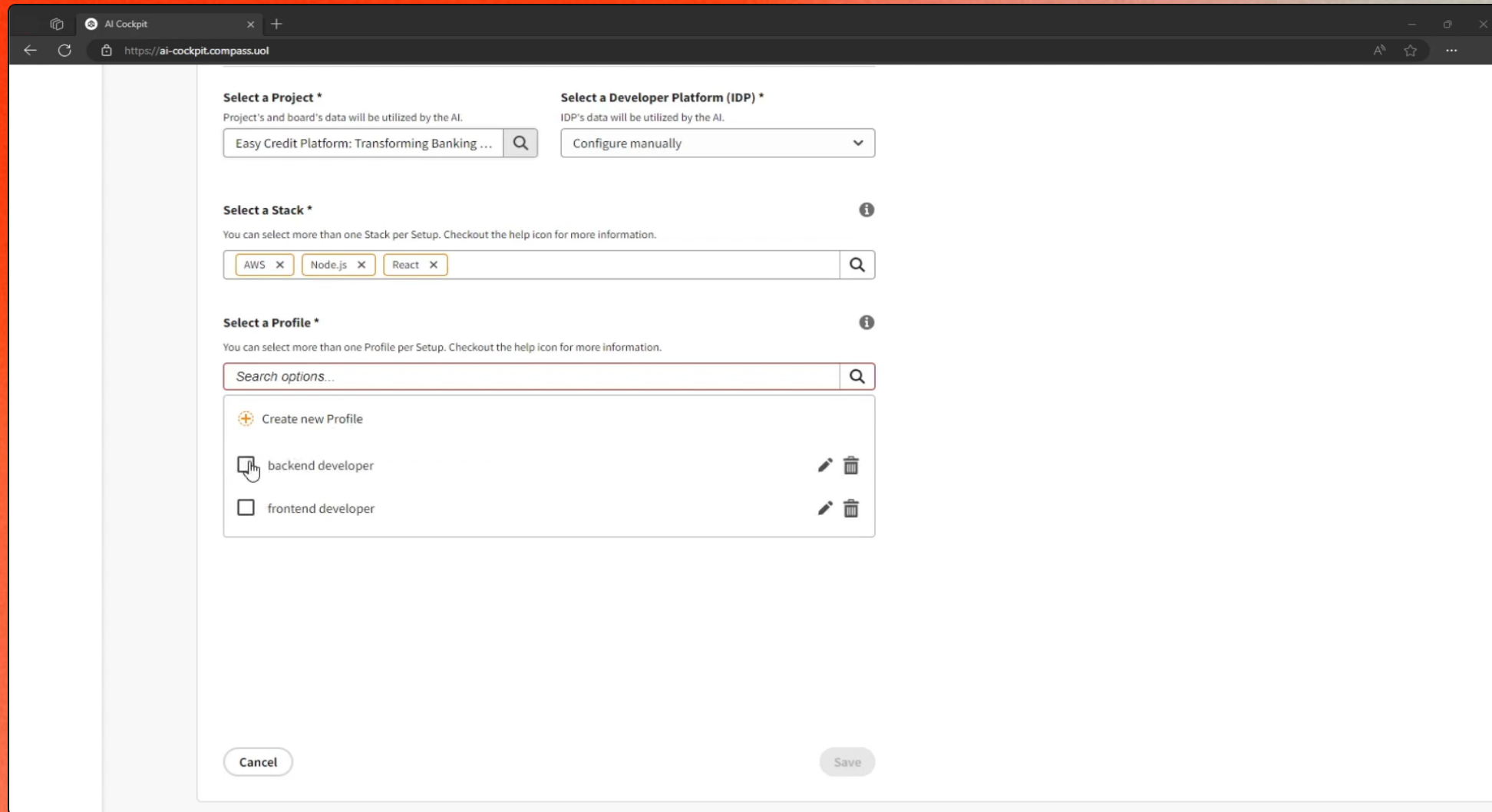
1.  
Project

2.  
Initiatives

3.  
Epics

4.  
User History

5.  
SUB-Tasks



The screenshot shows a web browser window with the URL <https://ai-cockpit.compass.uol>. The main content area displays a configuration form for creating initiatives. The form is titled "INITIATIVES CREATION" and "REQUIREMENTS". It contains the following sections:

- Select a Project \***: A search input field with the text "Easy Credit Platform: Transforming Banking ..." and a search icon. Below it, a note states "Project's and board's data will be utilized by the AI."
- Select a Developer Platform (IDP) \***: A dropdown menu currently showing "Configure manually". Below it, a note states "IDP's data will be utilized by the AI."
- Select a Stack \***: A multi-select input field containing three items: "AWS", "Node.js", and "React". Below it, a note states "You can select more than one Stack per Setup. Checkout the help icon for more information."
- Select a Profile \***: A search input field with the text "Search options...". Below it, a list of profiles is shown:
  - Create new Profile
  - backend developer
  - frontend developerEach profile has edit and delete icons to its right.

At the bottom of the form, there are two buttons: "Cancel" and "Save".

INITIATIVES CREATION

REQUIREMENTS

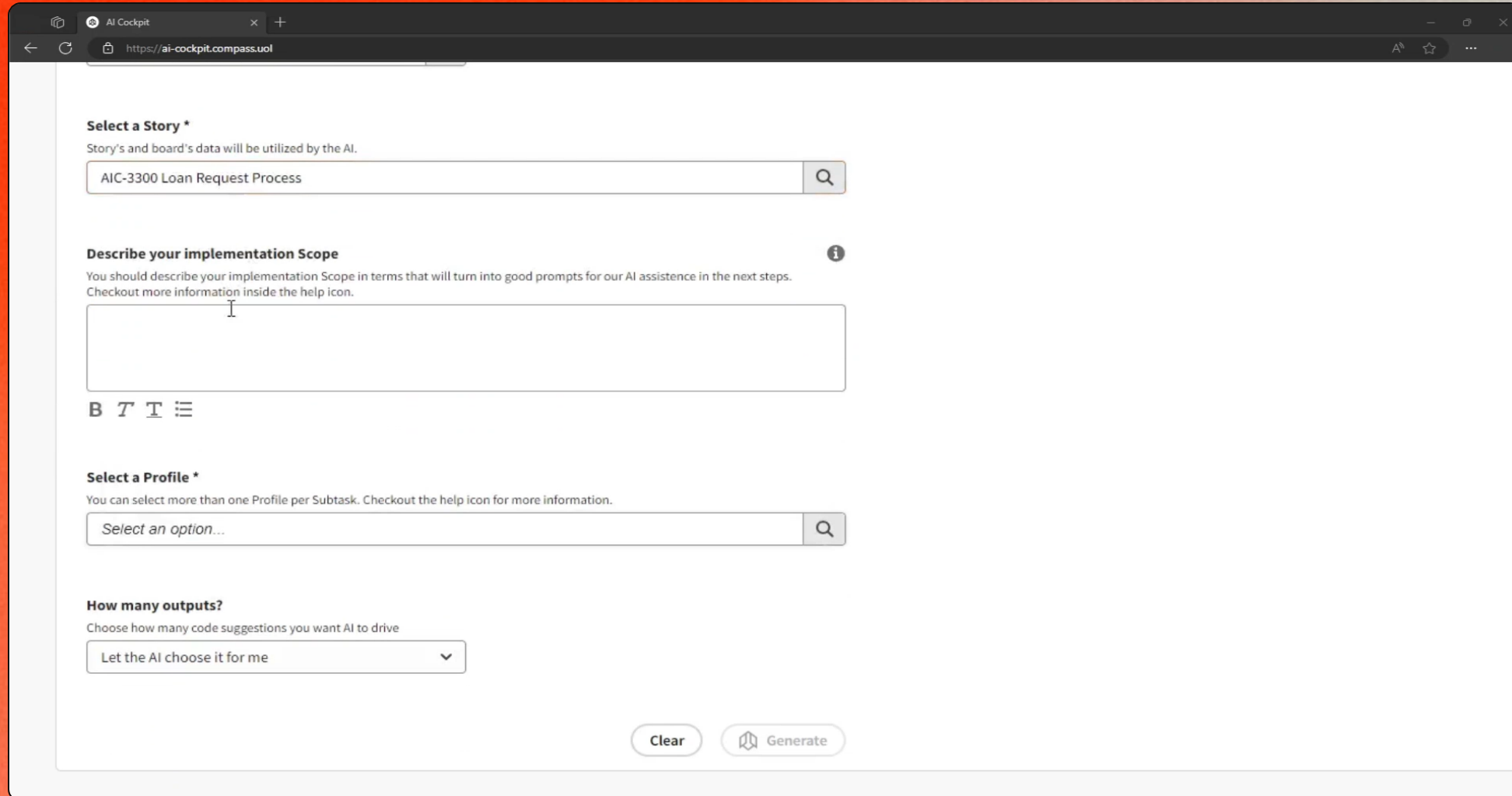
1.  
Project

2.  
Initiatives

3.  
Epics

4.  
User History

5.  
SUB-Tasks

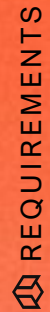


The screenshot shows a web browser window with the URL `https://ai-cockpit.compass.uol`. The page contains a form with the following sections:

- Select a Story \***: A text input field containing "AIC-3300 Loan Request Process" and a search icon.
- Describe your implementation Scope**: A text area with a help icon. Below it are formatting icons for bold (B), italic (I), underline (U), and list (☰).
- Select a Profile \***: A dropdown menu with the placeholder text "Select an option..." and a search icon.
- How many outputs?**: A dropdown menu with the selected option "Let the AI choose it for me".

At the bottom of the form are two buttons: "Clear" and "Generate".

INITIATIVES CREATION



REQUIREMENTS



# Leveraging the AI Cockpit in the **Development**

## 3. IMPLEMENTATION

- ▶ Code generation
- ▶ Code development
- ▶ Code reviewing
- ▶ Code documentation
- ▶ Code Modernization

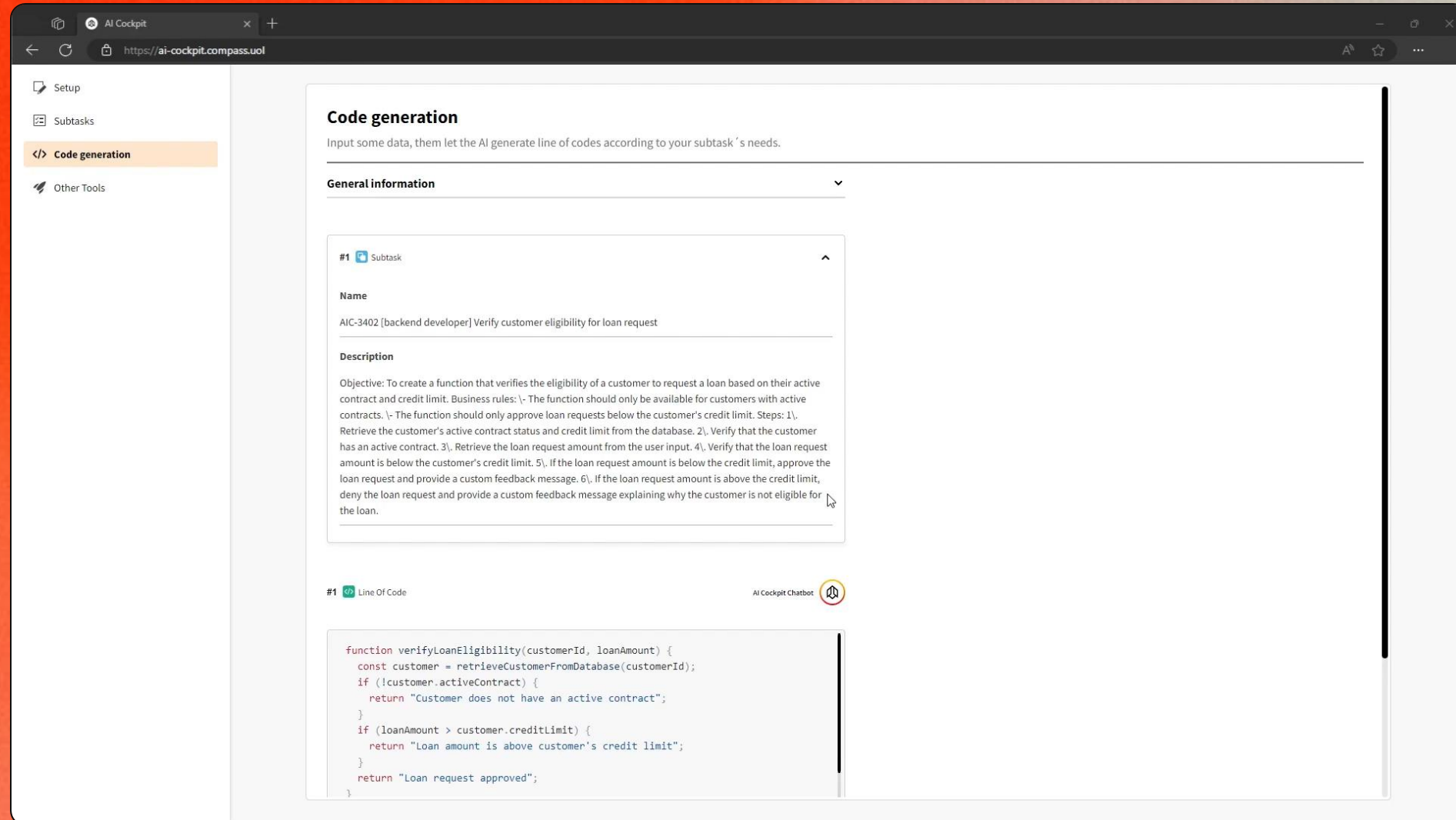
4.  
User History

5.  
Sub-Task

6.  
Code  
Development

7.  
Code  
Documentation

8.  
Tests



The screenshot shows the AI Cockpit web interface. The browser address bar displays `https://ai-cockpit.compass.uol`. The left sidebar contains navigation options: Setup, Subtasks, Code generation (highlighted), and Other Tools. The main content area is titled "Code generation" and includes the instruction: "Input some data, then let the AI generate line of codes according to your subtask's needs." Below this is a "General information" section with a dropdown arrow. It contains a subtask entry labeled "#1 Subtask" with the following details:

- Name:** AIC-3402 [backend developer] Verify customer eligibility for loan request
- Description:** Objective: To create a function that verifies the eligibility of a customer to request a loan based on their active contract and credit limit. Business rules: \- The function should only be available for customers with active contracts. \- The function should only approve loan requests below the customer's credit limit. Steps: 1\, Retrieve the customer's active contract status and credit limit from the database. 2\, Verify that the customer has an active contract. 3\, Retrieve the loan request amount from the user input. 4\, Verify that the loan request amount is below the customer's credit limit. 5\, If the loan request amount is below the credit limit, approve the loan request and provide a custom feedback message. 6\, If the loan request amount is above the credit limit, deny the loan request and provide a custom feedback message explaining why the customer is not eligible for the loan.

Below the subtask description is a "Line Of Code" section, labeled "#1 Line Of Code", which displays the following JavaScript code:

```
function verifyLoanEligibility(customerId, loanAmount) {
  const customer = retrieveCustomerFromDatabase(customerId);
  if (!customer.activeContract) {
    return "Customer does not have an active contract";
  }
  if (loanAmount > customer.creditLimit) {
    return "Loan amount is above customer's credit limit";
  }
  return "Loan request approved";
}
```

An "AI Cockpit Chatbot" icon is visible in the bottom right corner of the code area.

4.  
User History

5.  
Sub-Task

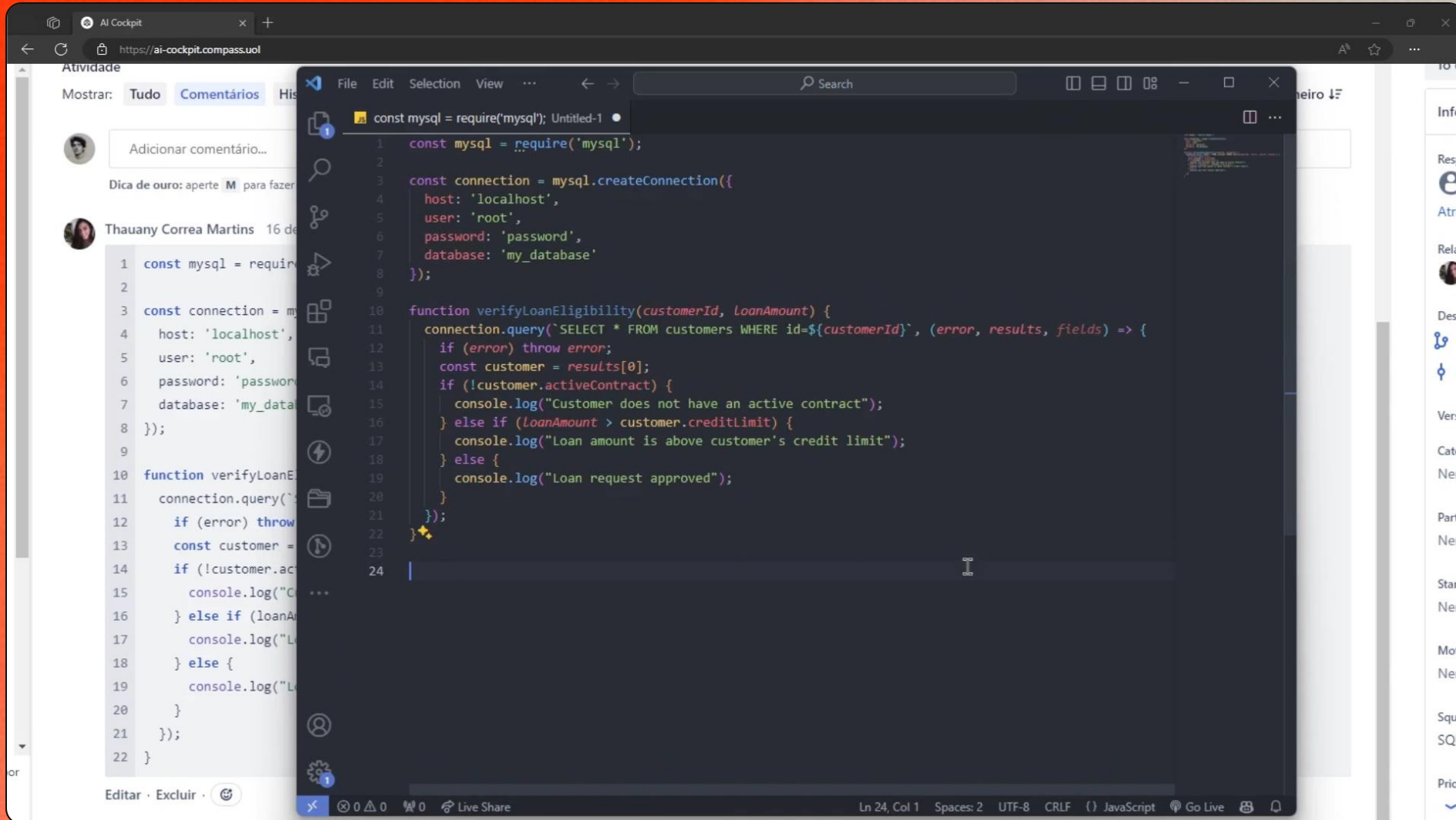
6.  
Code  
Development

7.  
Code  
Documentation

8.  
Tests

INITIATIVES CREATION

REQUIREMENTS



The screenshot displays the AI Cockpit interface within a browser window. The main content area is a code editor showing JavaScript code for database connection and loan eligibility verification. The code includes a MySQL connection setup and a function named `verifyLoanEligibility` that queries a database for customer information and checks for active contracts and credit limits.

```

const mysql = require('mysql');

const connection = mysql.createConnection({
  host: 'localhost',
  user: 'root',
  password: 'password',
  database: 'my_database'
});

function verifyLoanEligibility(customerId, LoanAmount) {
  connection.query(`SELECT * FROM customers WHERE id=${customerId}`, (error, results, fields) => {
    if (error) throw error;
    const customer = results[0];
    if (!customer.activeContract) {
      console.log("Customer does not have an active contract");
    } else if (LoanAmount > customer.creditLimit) {
      console.log("Loan amount is above customer's credit limit");
    } else {
      console.log("Loan request approved");
    }
  });
}

```

The interface also shows a sidebar with user history and comments, and a bottom status bar with file and editor information.

4.  
User History

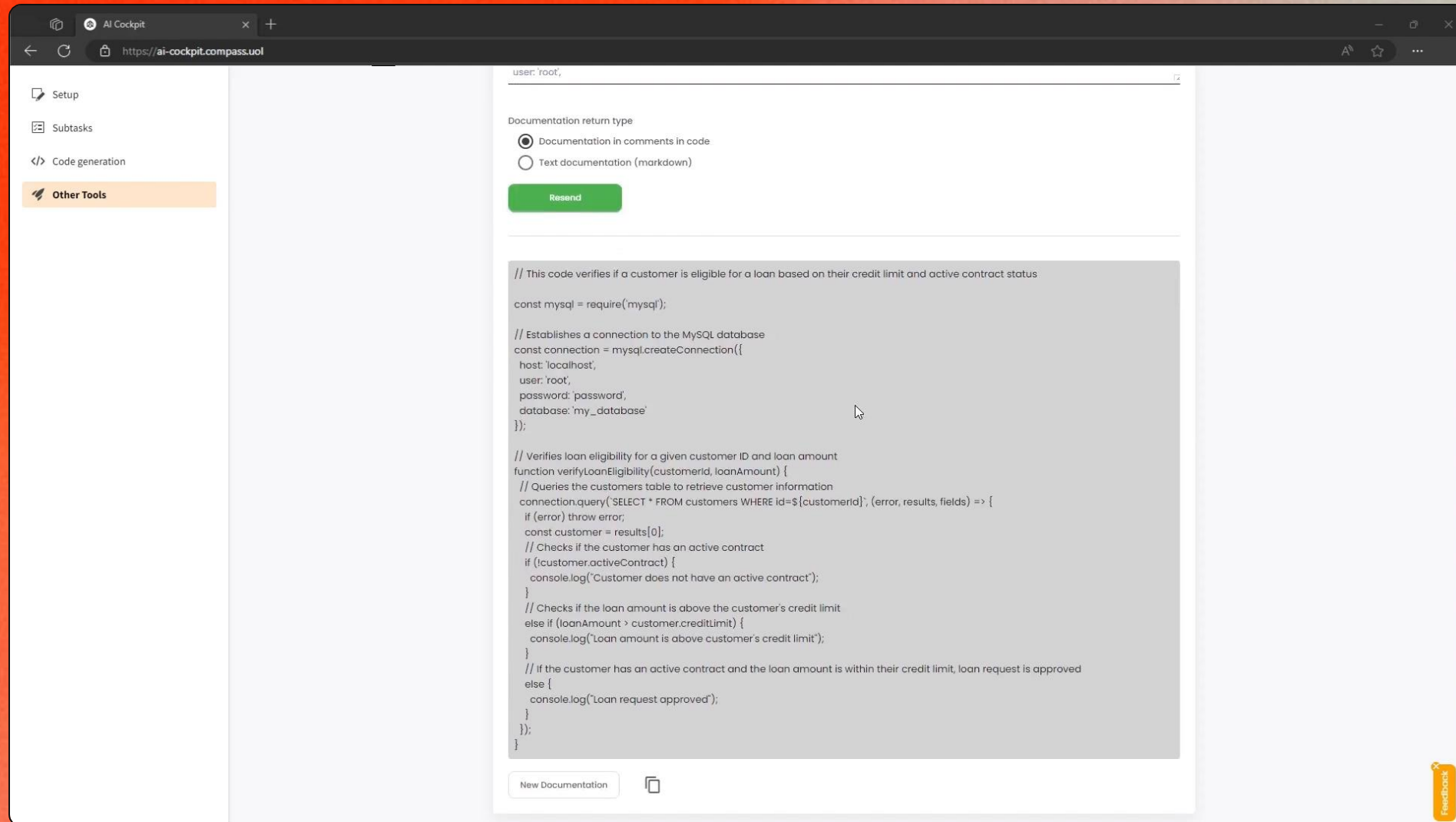
5.  
Sub-Task

6.  
Code  
Development

7.  
Code  
Documentation

8.  
Tests

INITIATIVES CREATION  
REQUIREMENTS



The screenshot shows the AI Cockpit web interface at <https://ai-cockpit.compass.uol>. The left sidebar contains navigation options: Setup, Subtasks, Code generation, and Other Tools (highlighted). The main content area displays a code editor with the following code:

```
user: 'root',

Documentation return type
 Documentation in comments in code
 Text documentation (markdown)

Resend

// This code verifies if a customer is eligible for a loan based on their credit limit and active contract status
const mysql = require('mysql');

// Establishes a connection to the MySQL database
const connection = mysql.createConnection({
  host: 'localhost',
  user: 'root',
  password: 'password',
  database: 'my_database'
});

// Verifies loan eligibility for a given customer ID and loan amount
function verifyLoanEligibility(customerId, loanAmount) {
  // Queries the customers table to retrieve customer information
  connection.query('SELECT * FROM customers WHERE id=${customerId}', (error, results, fields) => {
    if (error) throw error;
    const customer = results[0];
    // Checks if the customer has an active contract
    if (!customer.activeContract) {
      console.log("Customer does not have an active contract");
    }
    // Checks if the loan amount is above the customer's credit limit
    else if (loanAmount > customer.creditLimit) {
      console.log("Loan amount is above customer's credit limit");
    }
    // If the customer has an active contract and the loan amount is within their credit limit, loan request is approved
    else {
      console.log("Loan request approved");
    }
  });
}
```

At the bottom of the code editor, there are buttons for "New Documentation" and a copy icon. A "Feedback" button is located in the bottom right corner of the interface.

# Leveraging the AI Cockpit in the **QUALITY ASSURANCE**

## 4. QUALITY ASSURANCE

- ▶ Creation of acceptance and exception criteria
- ▶ Tests code documentation
- ▶ Automated Issue Opening and Classification

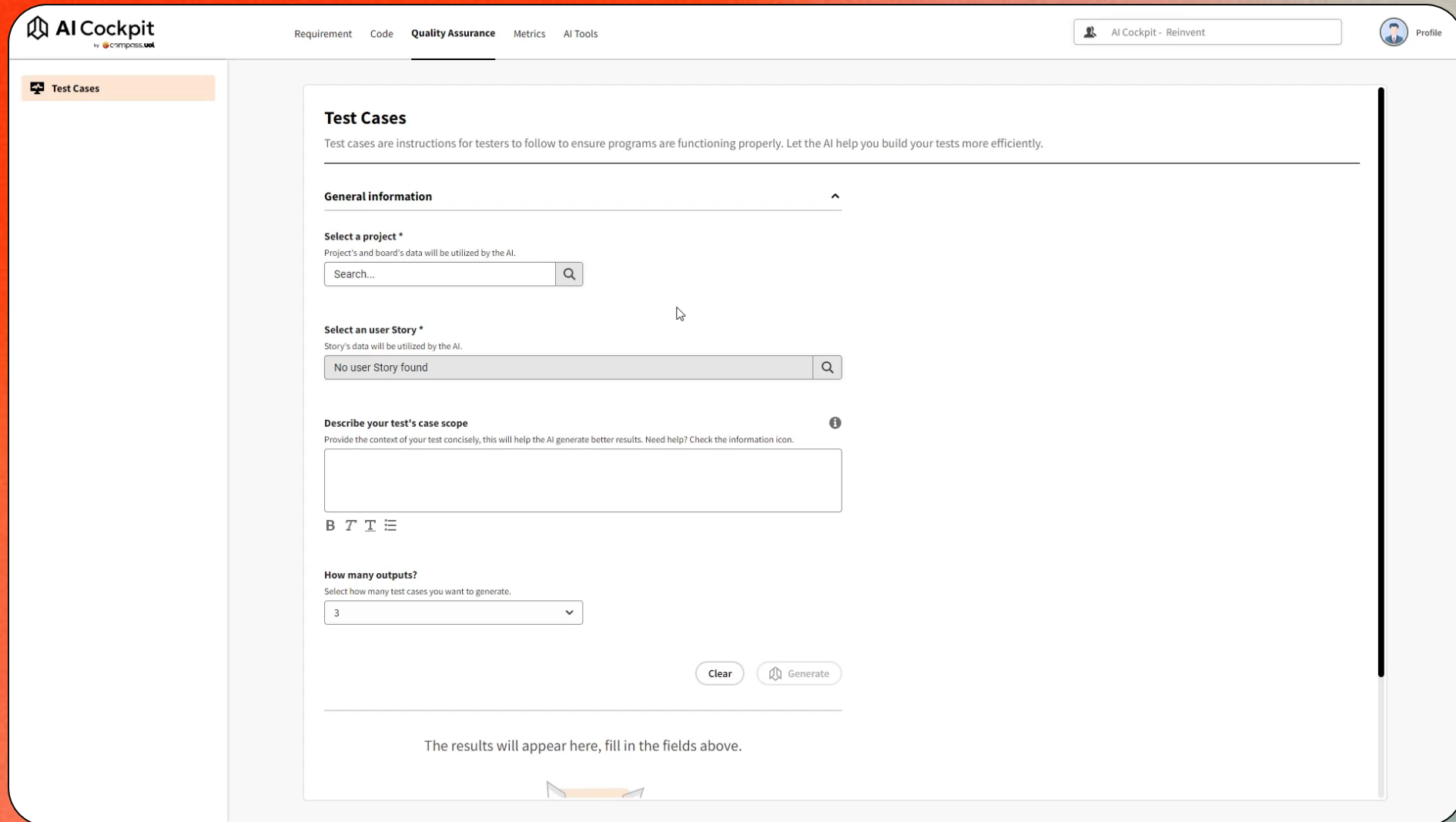
4.  
User History

5.  
Sub-Task

6.  
Code  
Development

7.  
Code  
Documentation

8.  
Tests



The screenshot shows the 'Test Cases' page in the AI Cockpit application. The interface includes a top navigation bar with 'Requirement', 'Code', 'Quality Assurance', 'Metrics', and 'AI Tools'. A user profile dropdown is visible in the top right corner, showing 'AI Cockpit - Reinvent' and a 'Profile' link. The main content area is titled 'Test Cases' and contains the following sections:

- General information**: A section header with an expand/collapse icon.
- Select a project \***: A dropdown menu with a search input field and a search icon. Below it, a note states: 'Project's and board's data will be utilized by the AI.'
- Select an user Story \***: A dropdown menu with a search input field and a search icon. Below it, a note states: 'Story's data will be utilized by the AI.'
- Describe your test's case scope**: A text area for input, with a note: 'Provide the context of your test concisely, this will help the AI generate better results. Need help? Check the information icon.' Below the text area are rich text formatting icons: Bold (B), Italic (I), Underline (U), and a list icon.
- How many outputs?**: A dropdown menu with the value '3' selected. A note above it says: 'Select how many test cases you want to generate.'

At the bottom of the form, there are two buttons: 'Clear' and 'Generate'. Below the form, a message reads: 'The results will appear here, fill in the fields above.'

4.  
User History

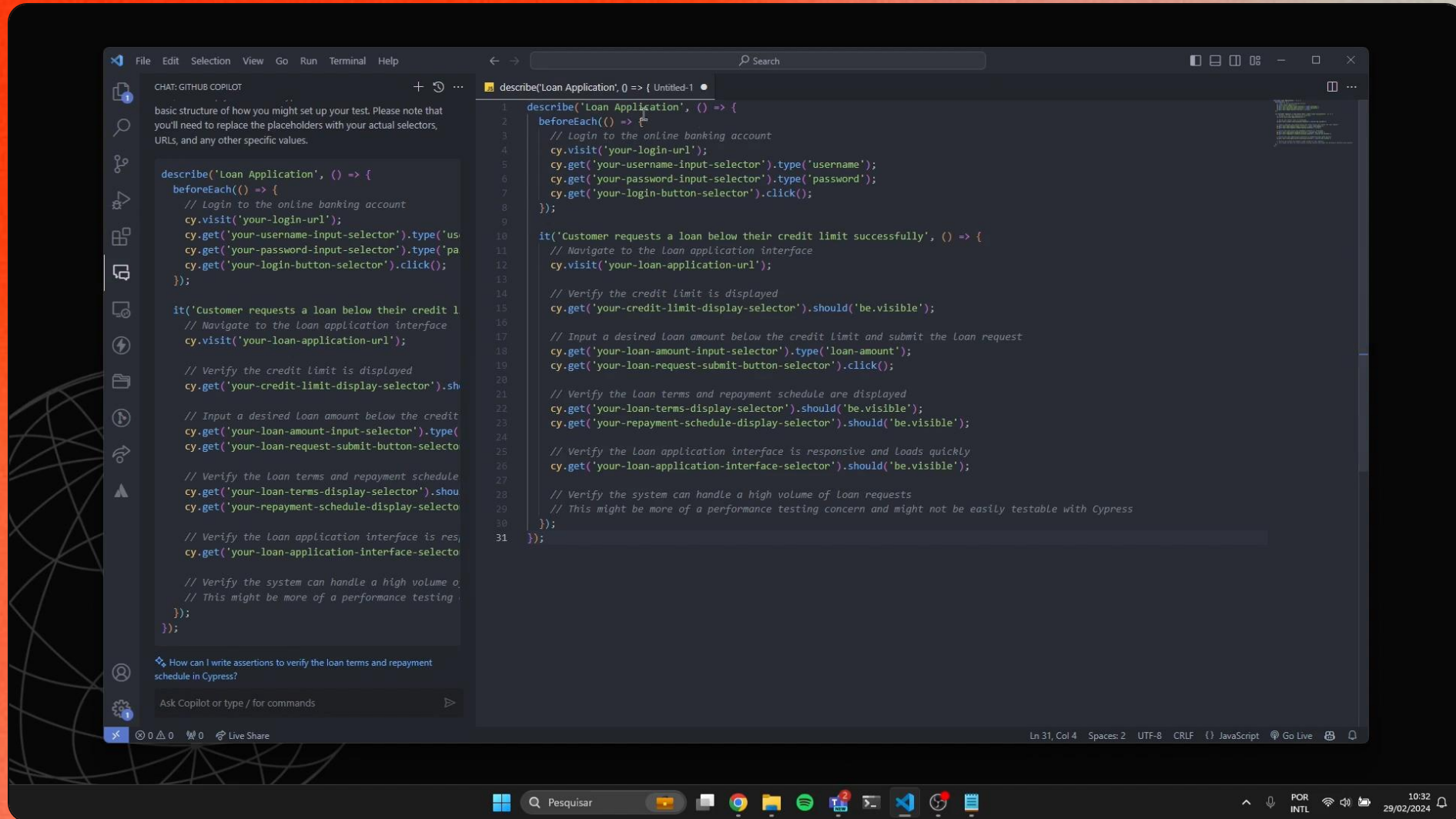
5.  
Sub-Task

6.  
Code  
Development

7.  
Code  
Documentation

8.  
Tests

INITIATIVES CREATION  
REQUIREMENTS



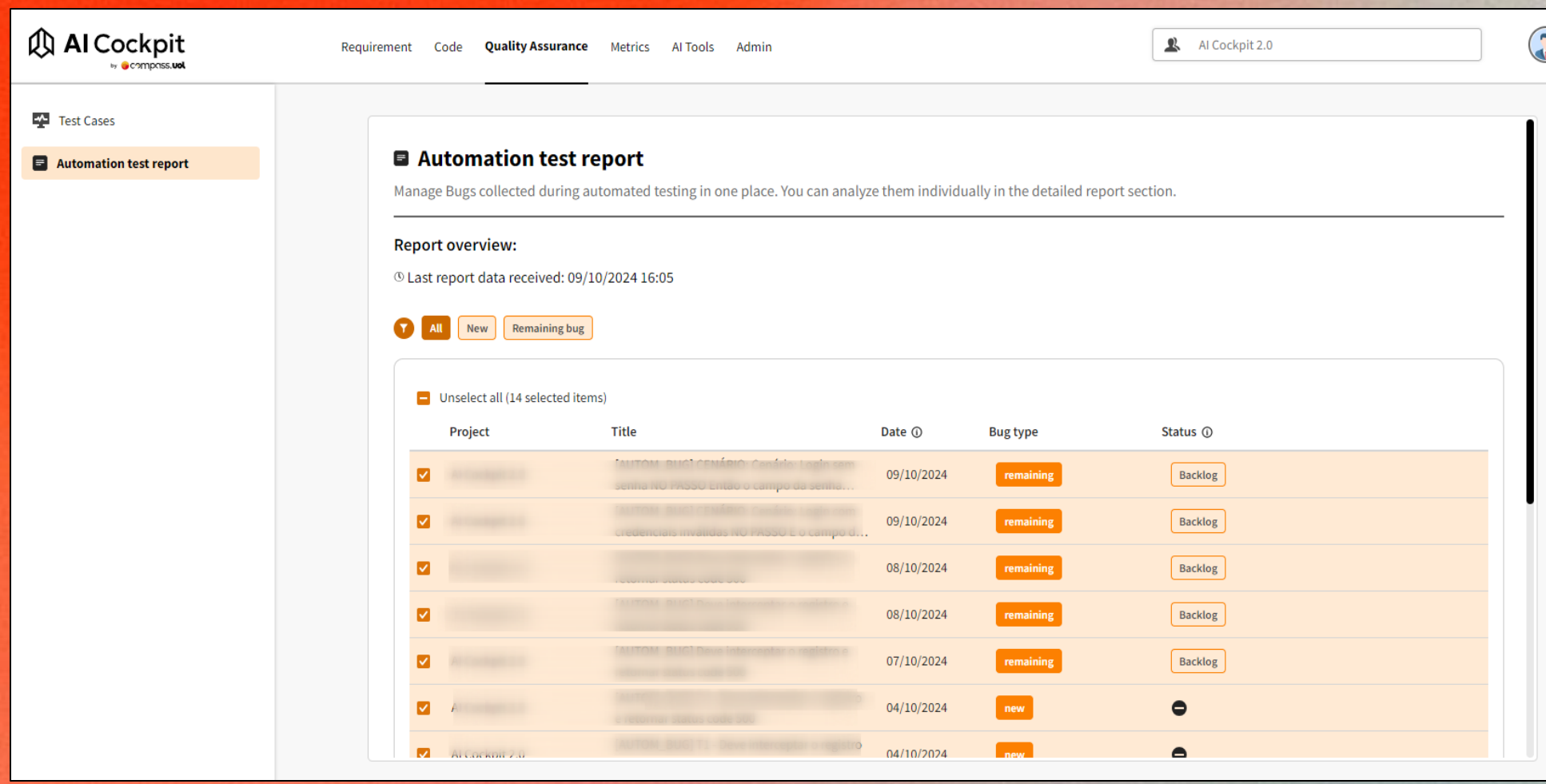
4.  
User History

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**AI Cockpit** by compass.uol

Requirement Code **Quality Assurance** Metrics AI Tools Admin

AI Cockpit 2.0

Test Cases

**Automation test report**

**Automation test report**

Manage Bugs collected during automated testing in one place. You can analyze them individually in the detailed report section.

**Report overview:**

Last report data received: 09/10/2024 16:05

All New Remaining bug

Unselect all (14 selected items)

Project	Title	Date	Bug type	Status
AI Cockpit 2.0	AUTOM. BUG1 - Confirma Login sem senha NO PASSO Entao o campo de senha...	09/10/2024	remaining	Backlog
AI Cockpit 2.0	AUTOM. BUG2 - Credenciais invalidas NO PASSO E o campo de...	09/10/2024	remaining	Backlog
AI Cockpit 2.0	AUTOM. BUG3 - Credenciais invalidas NO PASSO E o campo de...	08/10/2024	remaining	Backlog
AI Cockpit 2.0	AUTOM. BUG4 - Credenciais invalidas NO PASSO E o campo de...	08/10/2024	remaining	Backlog
AI Cockpit 2.0	AUTOM. BUG5 - Credenciais invalidas NO PASSO E o campo de...	07/10/2024	remaining	Backlog
AI Cockpit 2.0	AUTOM. BUG6 - Credenciais invalidas NO PASSO E o campo de...	04/10/2024	new	-
AI Cockpit 2.0	AUTOM. BUG7 - Credenciais invalidas NO PASSO E o campo de...	04/10/2024	new	-

INITIATIVES CREATION

REQUIREMENTS



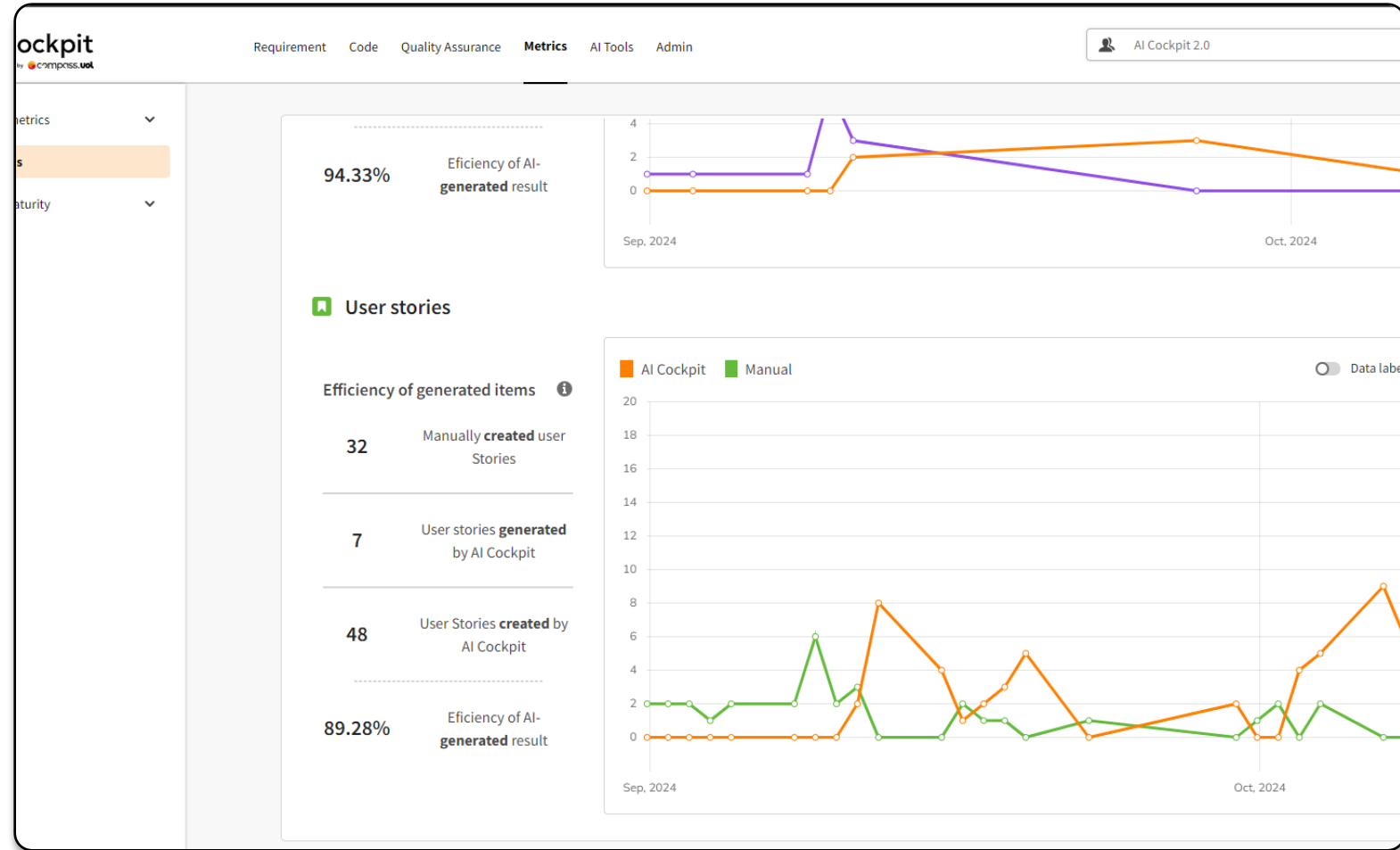
# Leveraging the AI Cockpit in the **Management**

## 5. DEPLOYMENT & MAINTENANCE

- ▶ CI/CD pipeline development
- ▶ Root cause analysis
- ▶ Metrics and Insights

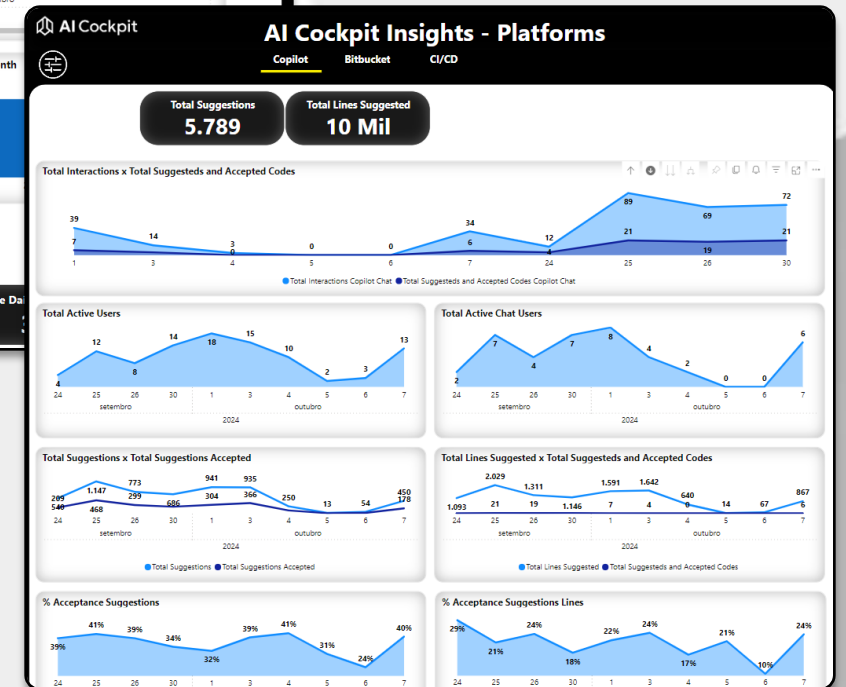
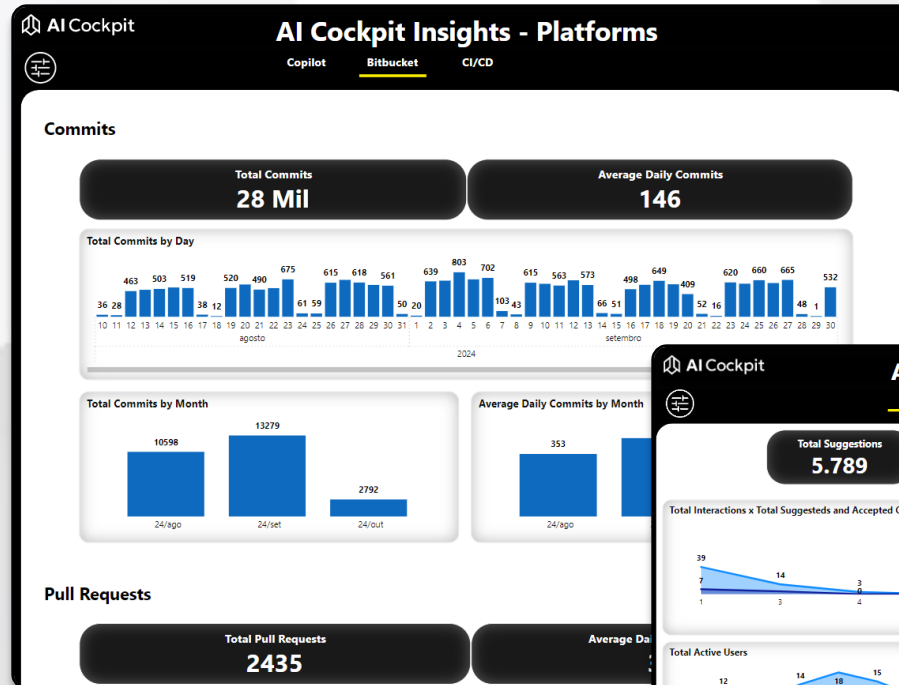
# Efficiency Metrics AI Cockpit

Through **AI metrics**, it is possible to visualize the accuracy of responses and the adherence to their usage



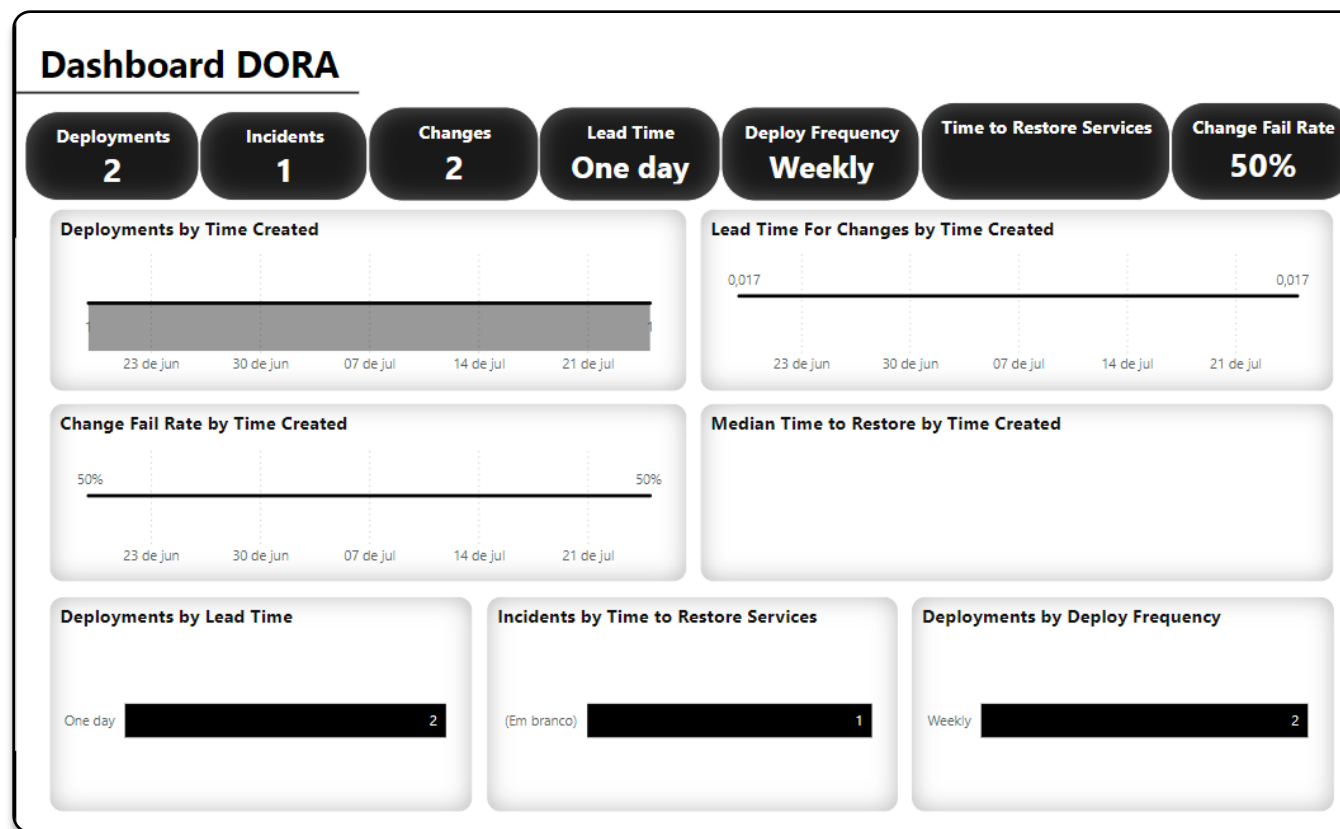
# Efficiency Metrics Development

Visible management of metrics at the technical level. These metrics correlate the use of AI tools with what is actually visible in terms of AI suggestions and committed code



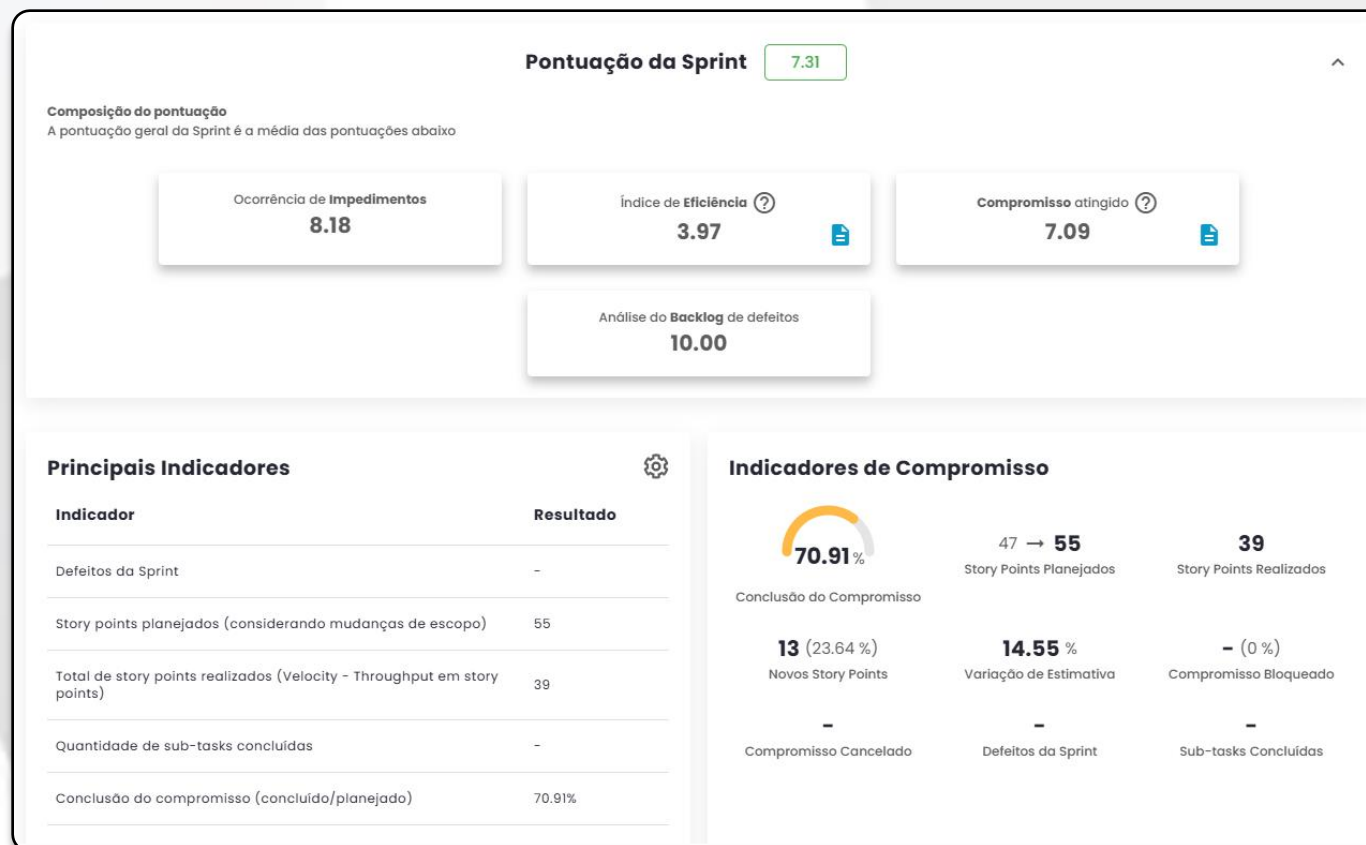
# Efficiency Metrics CI/CD

Visible management of metrics at the delivery and pipeline level. These metrics help us understand potential gaps in deliveries and the quality of the delivery



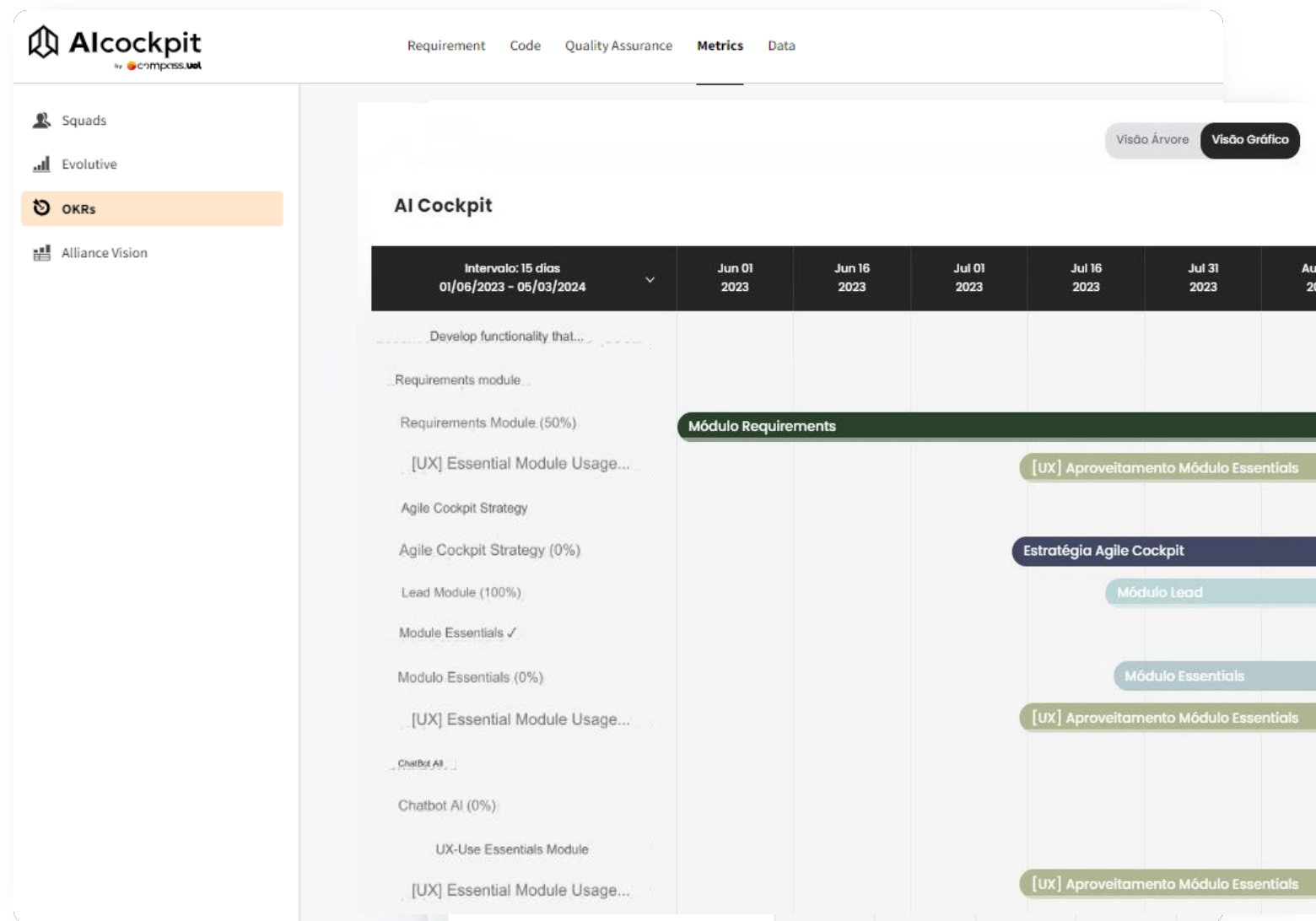
# Efficiency Metrics Flow

With a consolidated set of market metrics and through the analysis of past data, we can project future efficiency based on the AI Cockpit tools



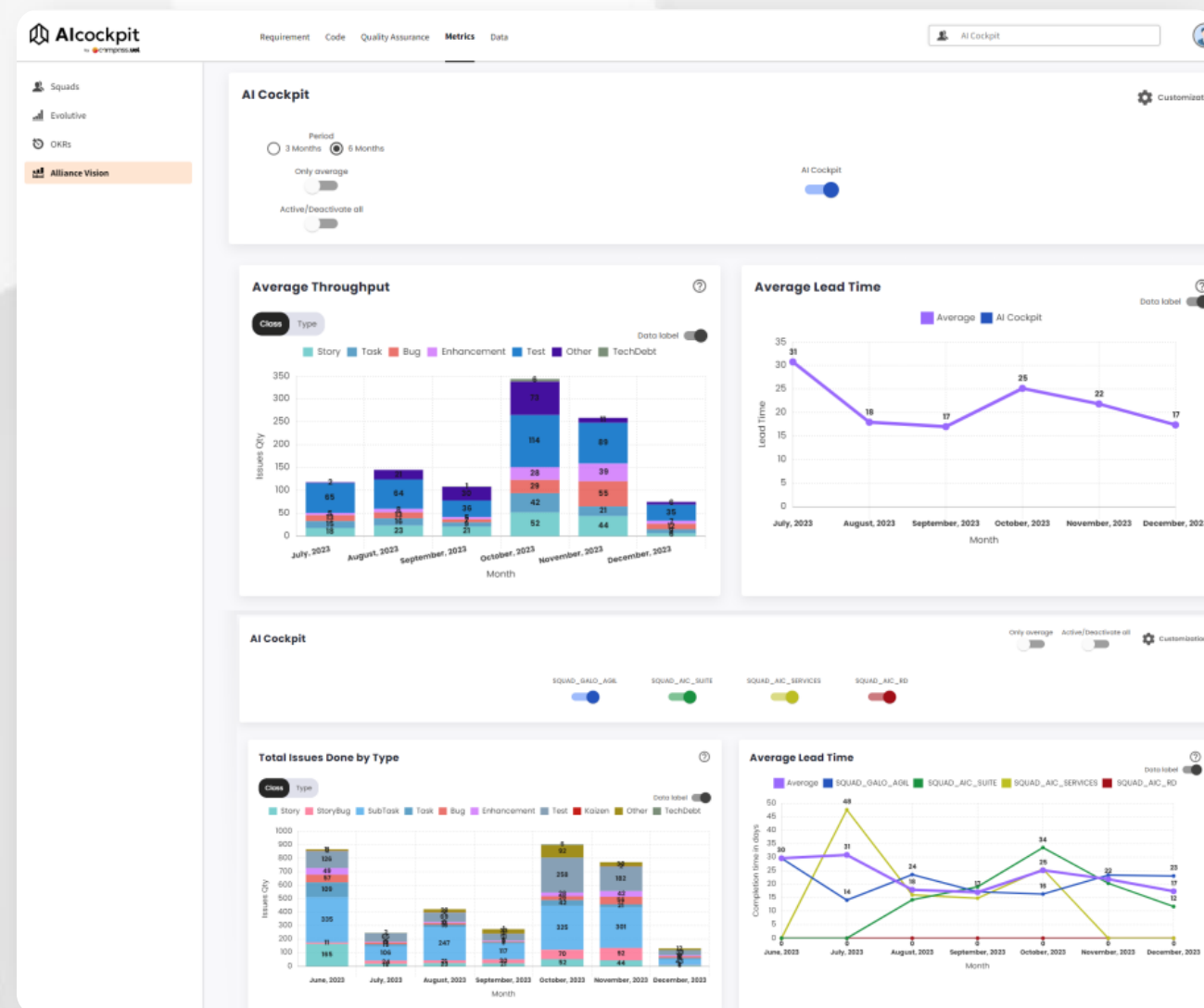
# Work Management Metrics

At a strategic level, with OKRs you can analyze the progress and speed of your objectives to ensure your company is on the right track and making progress



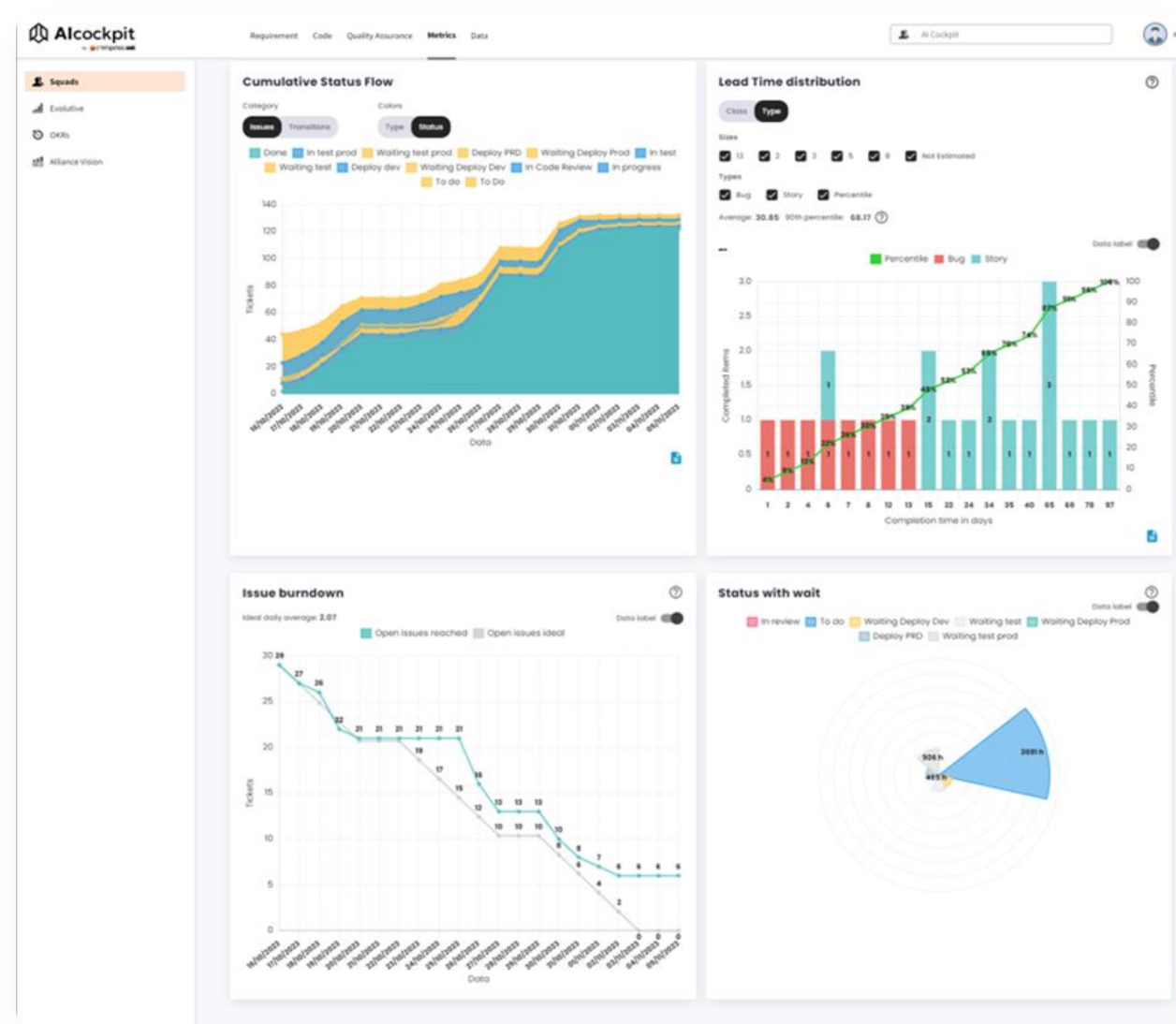
# Work Management Metrics

Introducing the concept of Flight Levels, we bring visible management of metrics at the coordination level, with tribe/alliance-level metrics that provide transparency and visibility into the acceleration of deliveries



# Work Management Metrics

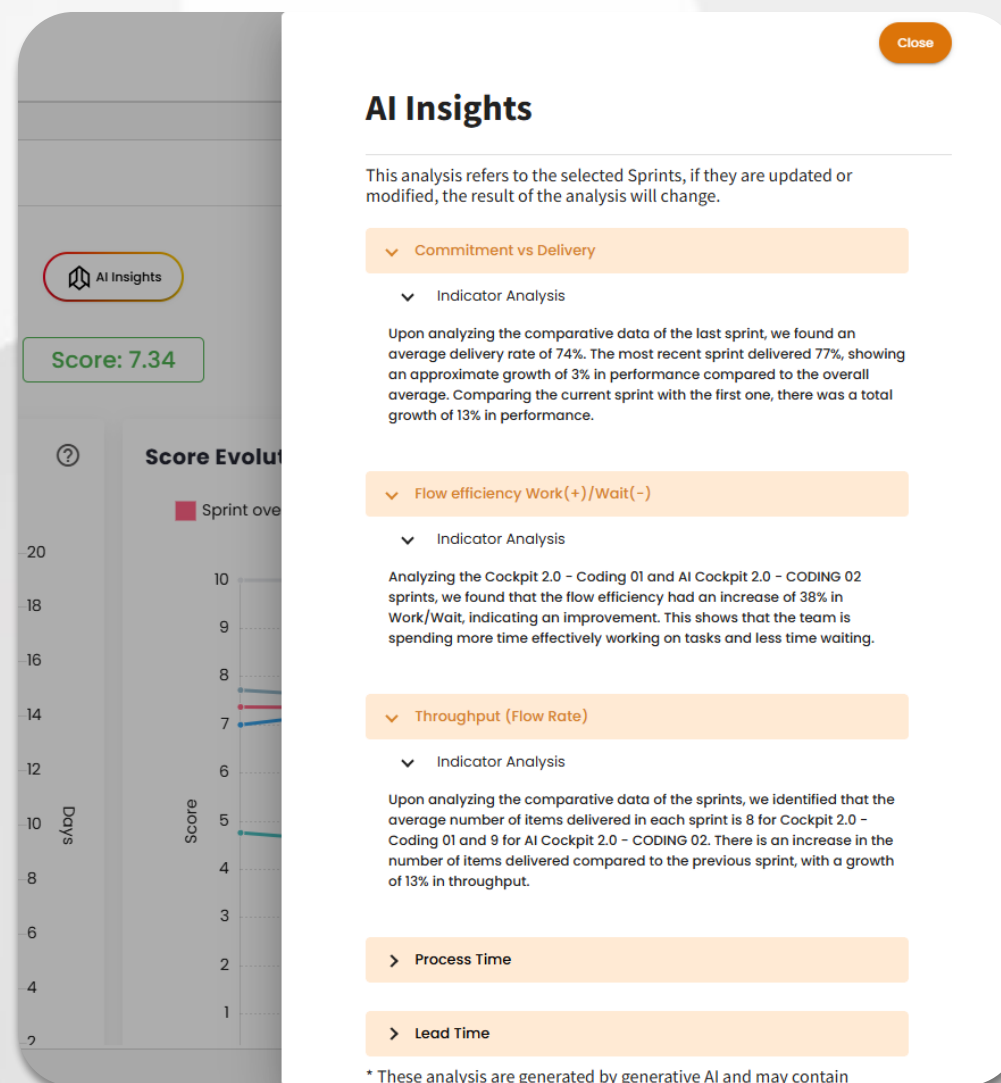
Visible management of metrics at the operational level, with over 40 indicators that allow for the identification of bottlenecks, impediments, and areas where teams can accelerate their delivery





# AI INSIGHT Metrics

Insights for agile metrics, enhancing operational efficiency and enabling the identification of bottlenecks and areas for improvement



# ACHIEVED GAINS

1. REQUIREMENTS GATHERING
2. ARCHITECTURE & DESIGN
3. IMPLEMENTATION
4. QUALITY ASSURANCE
5. DEPLOYMENT & MAINTENANCE

## Up to 275% efficiency increase

by simplifying the upstream with the generation of initiatives, epics, user stories, and acceptance criteria, as well as enabling AI contextualization through documents and meeting transcriptions.

## Up to 75% gain, in understanding legacy code

, generating documentation, and producing code in modern languages by optimizing the process of creating and documenting solutions.

## Up to 48% increased efficiency, resulting in more agile and standardized development

, due to the facilitated construction of sub-tasks, coding standards, and development support tools with AI-assisted features.

## Up to 100% gain, improving the creation of automated tests

and the detection of exception scenarios, as well as the creation of test scenarios for user stories and development supported by AI-assisted tools.

## Up to 329% gain in resolving tickets

and generating documentation for easy understanding of applications, facilitating assertive maintenance, and resolving tickets quickly and efficiently.

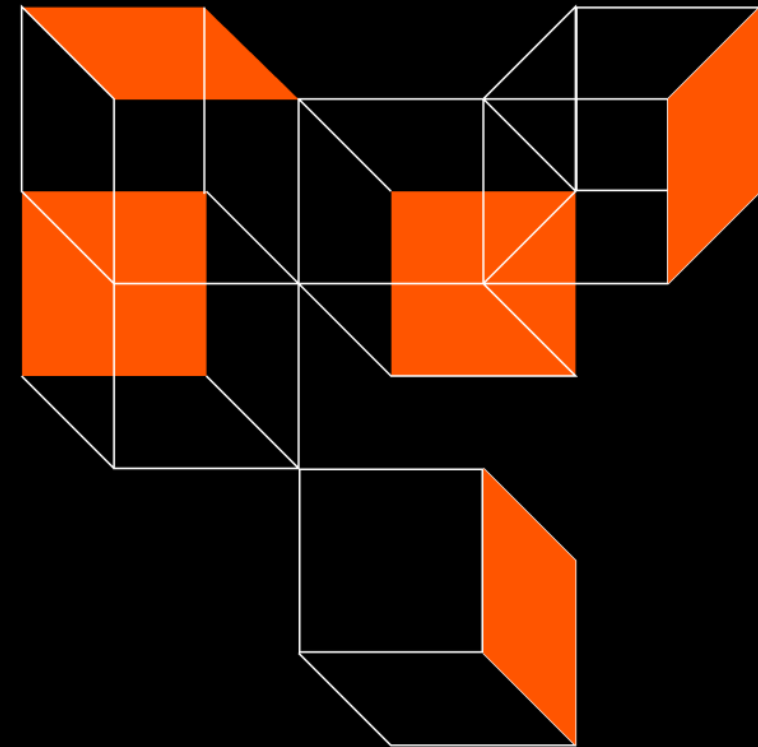
# ACHIEVED GAINS

EFICIENCY GAIN

## +215% in the requirements phase

"The implementation of the AI Cockpit in the pharmacy terminal modernization project resulted in a gain of over 215% in the efficiency of writing epics and user stories, significantly accelerating deliveries. Additionally, there was a 48% reduction in the estimated development time."

CUSTOMER OF PHARMACEUTICAL SECTOR



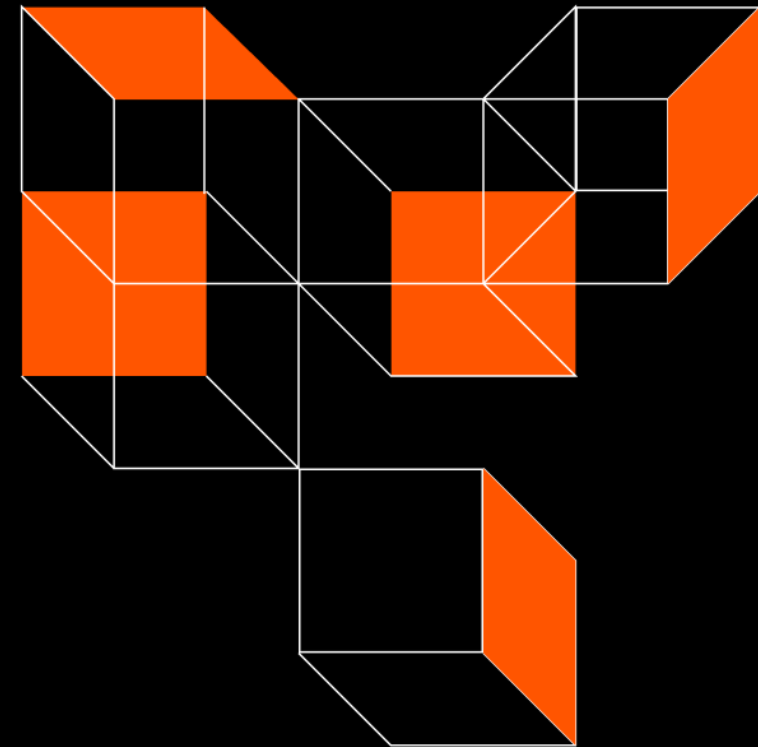
# ACHIEVED GAINS

## EFICIENCY GAIN

# 30% in the development phase

“The implementation of the AI Cockpit has significantly transformed the software development process, bringing notable efficiency gains. With it, collaborators of different experience levels were able to automatically generate user stories and acceptance and exception criteria for testing, simplifying the process and code documentation. The experience reinforces how AI tools, like the AI Cockpit, can enhance the software development lifecycle, increasing productivity and the quality of deliveries.”

CUSTOMER OF RETAIL SECTOR



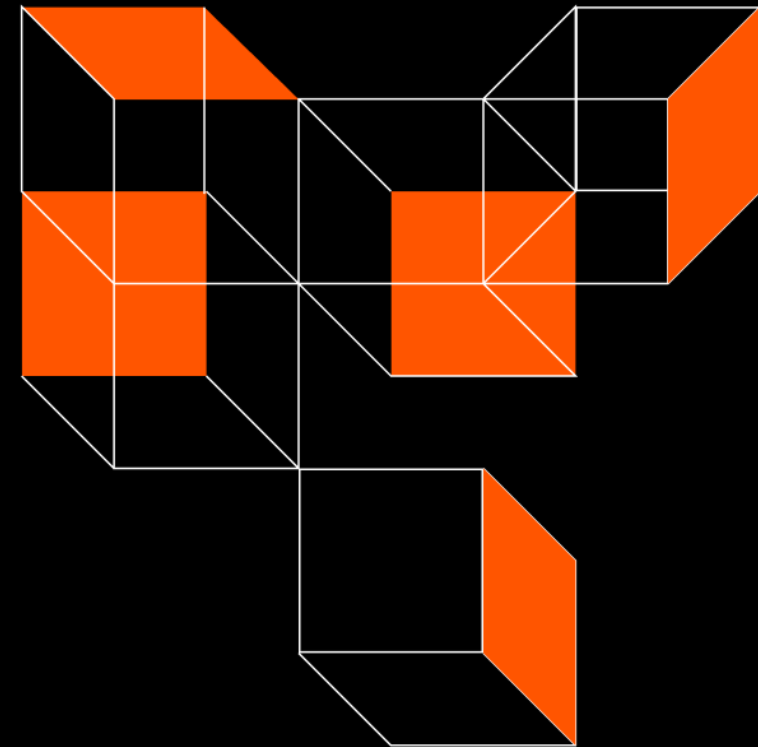
# ACHIEVED GAINS

## EFFICIENCY GAIN

# +60% in requirements, development, and testing

“The AI Cockpit played a significant role in the development of the solution, improving the writing of epics, user stories, and acceptance criteria. This resulted in gains in time and quality. With a 62% increase in development efficiency, 82% in writing unit tests, and 65% in building automated tests, both quantitative and qualitative metrics confirm the effectiveness of the AI Cockpit.”

CLIENT OF FINANCIAL SECTOR



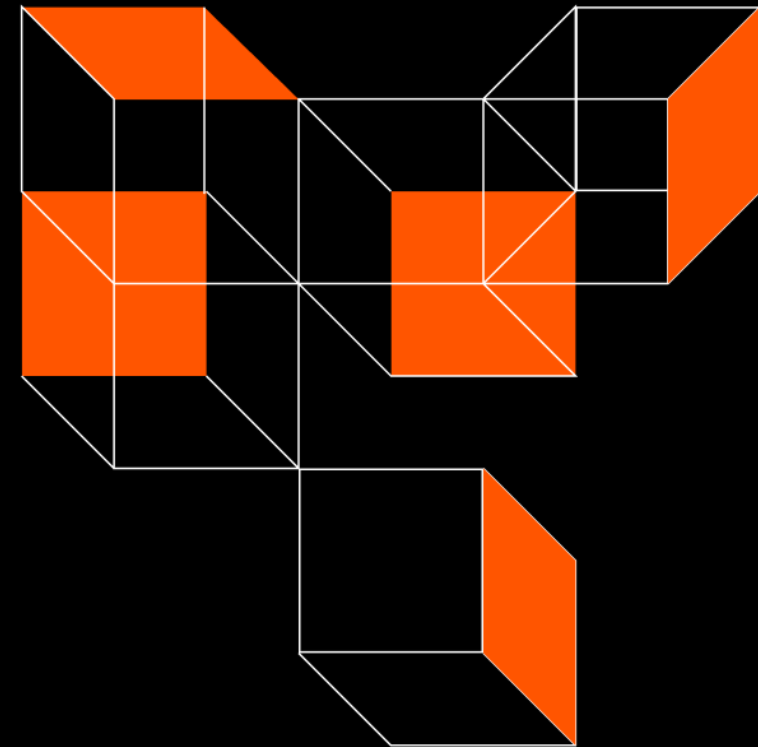
# ACHIEVED GAINS

## EFFICIENCY GAIN

# 4 times in the development phase

"The use of Code Assistant Tool has significantly improved efficiency and productivity in software development, reducing Cycle Time by an average of 53% and increasing Touch Time by approximately 55%. Remarkably, a backlog of tickets that would typically take 133 days to resolve was cleared in just 31 days, demonstrating a substantial reduction in development time. These results highlight the effectiveness of Code Assistant Tool in accelerating the development process and enhancing code quality."

CLIENT OF TELECOM SECTOR



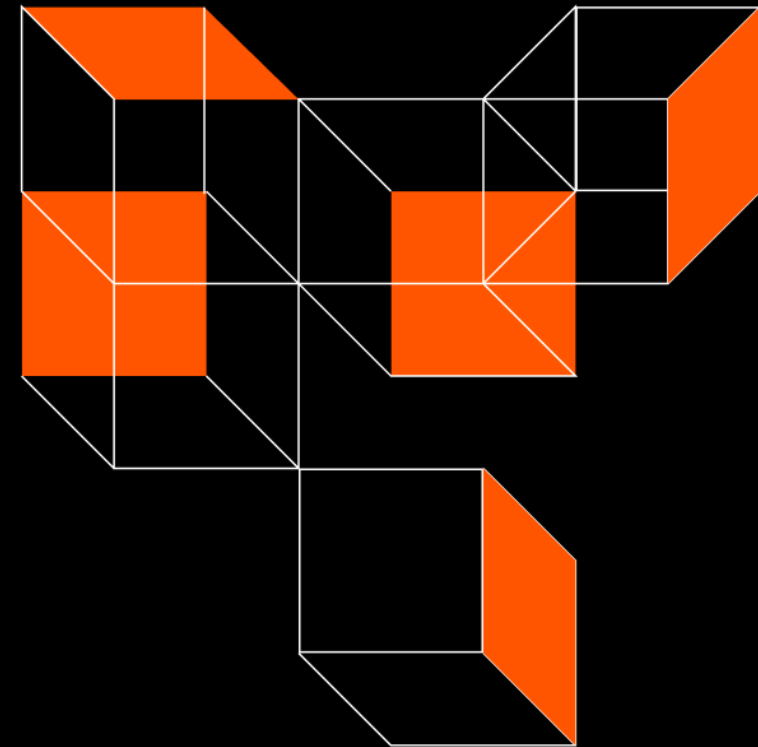
# ACHIEVED GAINS

## EFFICIENCY GAIN

# 75% efficiency in understanding and modernizing legacy code

“Since the beginning, the tool has transformed our engineering process. The ability to accurately extract business rules from the source code simplifies documentation and understanding of systems, in addition to facilitating efficient modernization and continuity of projects. I am impressed with the effectiveness and positive results that the technology has brought us.”

CLIENT OF FINANCIAL SECTOR

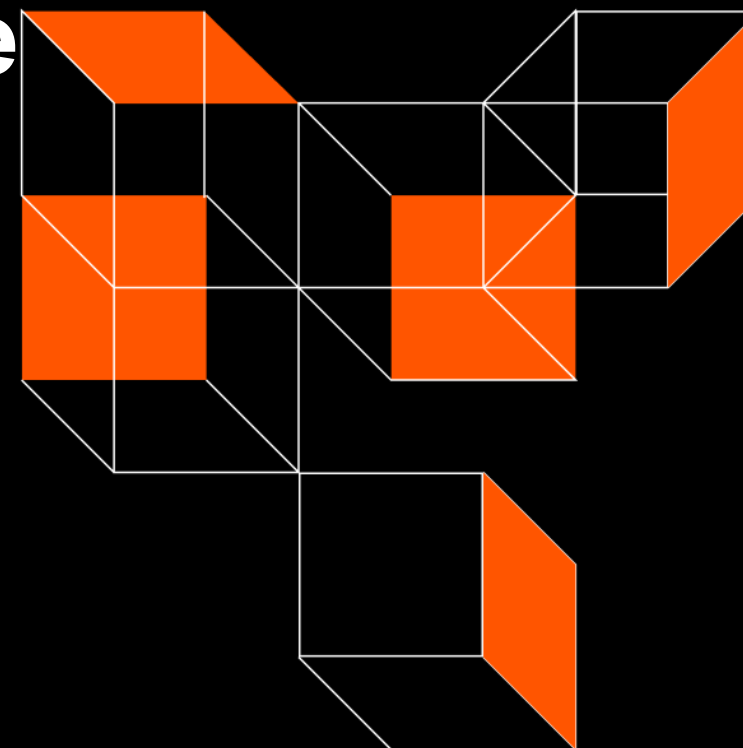


# ACHIEVED GAINS

## EFICIENCY GAIN

# 41% throughout the entire process

“The tool offers remarkable optimization in development, generating logical descriptions and user stories, which facilitates the identification of scenarios and acceptance criteria, reducing the writing time and resulting in a 192% gain in this phase. The introduction of code assistant improved the efficiency of creating unit, integrated, and contract tests by 75%, and a 100% gain in writing automated tests, allowing for the rapid generation of necessary methods for simulation. Additionally, the AI Cockpit showed a 41% efficiency in the process as a whole, generating an expectation of greater gains as familiarity with the tool increases.”



CLIENT OF REWARD SECTOR

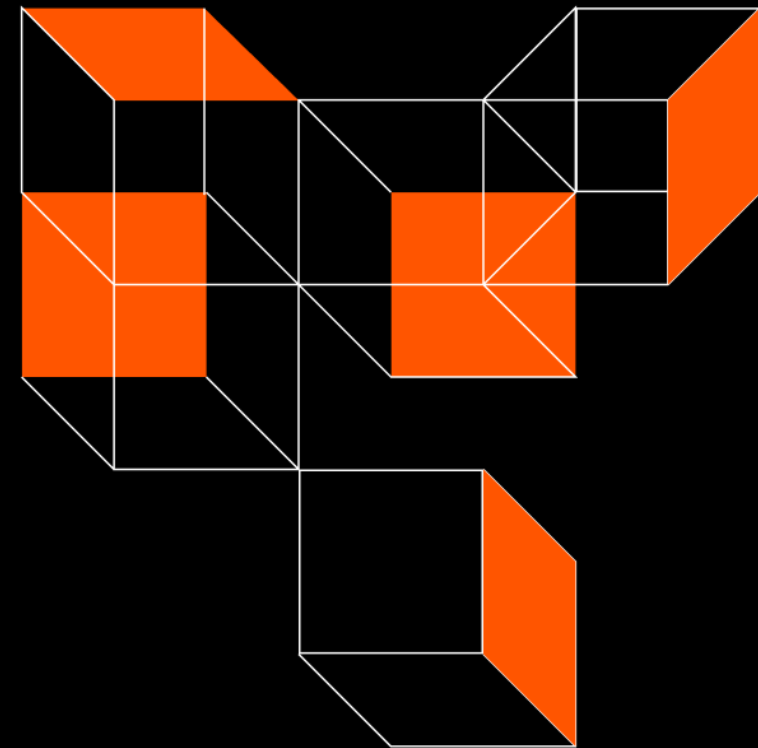


# ACHIEVED GAINS

## EFICIENCY GAIN

# 168 Documented Applications in Just 1 Month

“In one month, a total of 168 projects were processed, totaling 15,179,500 lines of code. Our Smart Engineering solution was capable of extracting business and technical aspects from the code, as well as generating diagrams for a range of technologies such as Centura, Classic ASP, .NET, Swift, Objective-C, and Java.”



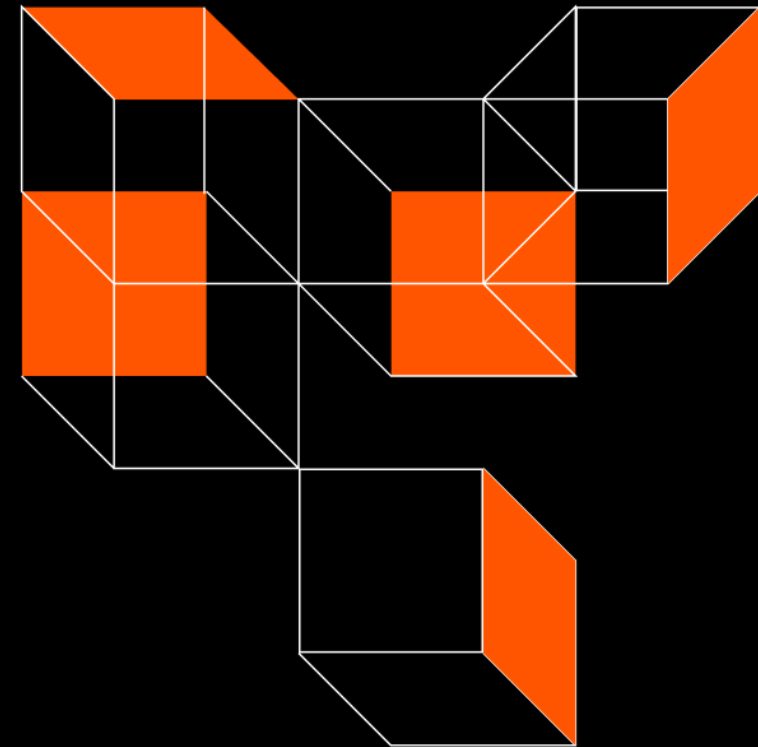
PROJECT OF FINANCIAL SECTOR

# ACHIEVED GAINS

## EFICIENCY GAIN

# Clipper code understanding

“Analyzed a legacy Clipper application with over 406.000 lines of code in 16 hours. Achieved complete understanding through documentation, impact ,sequence, C4 and class diagrams. Mapped the entire client’s legacy process, providing a comprehensive view and clear insights into the system’s architecture and functionality.”



PROJECT OF FINANCIAL SECTOR

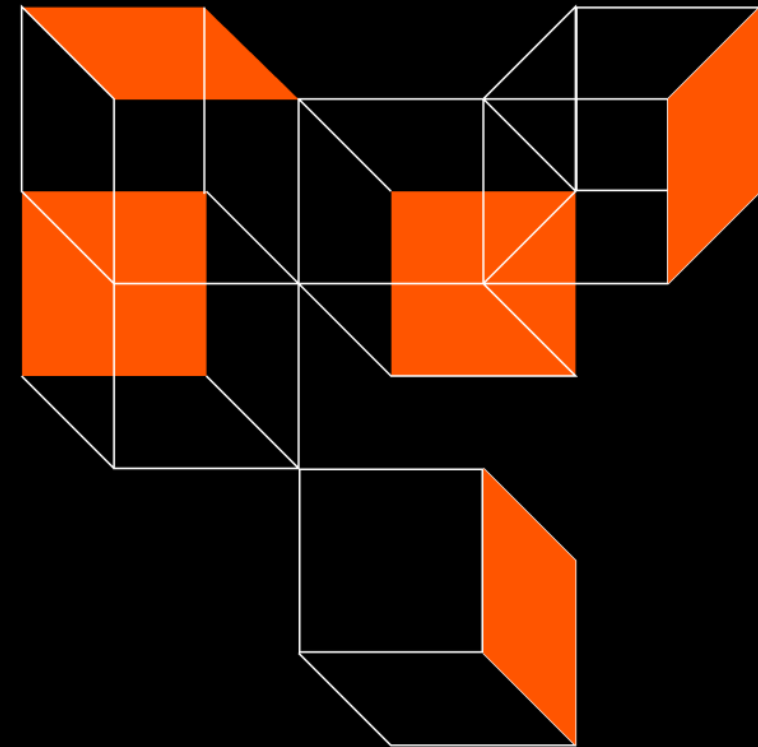
# ACHIEVED GAINS

## EFICIENCY GAIN

# Visual Basic Modernization

“Performed an in-depth analysis of a Visual Basic application exceeding 1MM lines of code. Generated all necessary artifacts for code modernization, including documentation and diagrams. Additionally, completed an initial modernization of a key application to demonstrate the process's efficiency and effectiveness. This project laid the groundwork for transforming legacy code into a more modern and maintainable system.”

PROJECT OF MANUFACTOR SECTOR



/ Thank you

