

Insight Coding - User Manual

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1. Introduction

1.1 What is Insight Coding?

Insight Coding (Artifact Comparator Platform) is a comprehensive web-based application designed to facilitate systematic evaluation of software artifacts in research environments. The platform addresses a critical need in software engineering research by providing a unified environment for researchers to conduct empirical studies involving the evaluation and comparison of diverse software artifacts.

1.2 Why Use Insight Coding?

Traditional artifact evaluation in software engineering research is often:

- **Subjective and inconsistent** - Lacking standardized evaluation methods
- **Time-consuming** - Requiring manual coordination and data collection
- **Fragmented** - Using multiple disconnected tools and platforms

Insight Coding solves these problems by providing:

- **Centralized Study Management** - Create, configure, and monitor research studies from a single platform
- **Standardized Evaluation** - Structured comparison tasks with consistent annotation and rating mechanisms
- **Multi-Role Support** - Dedicated interfaces for researchers, participants, reviewers, and administrators
- **AI-Assisted Tools** - Automated quiz and artifact generation capabilities
- **Data Export & Analytics** - Built-in visualization and data export for research analysis
- **Blinded Evaluation** - Support for unbiased, controlled experimental conditions

1.3 Who Should Use This System?

- **Researchers** - Design and conduct artifact evaluation studies, manage participants, analyze results
- **Participants** - Evaluate software artifacts through structured comparison tasks
- **Reviewers** - Review and grade participant submissions
- **Administrators** - Manage platform users, monitor system activity, handle access requests

1.4 Key Features

- **User Management:** Secure registration, role-based access control, approval workflows
- **Artifact Management:** Upload, organize, and manage various artifact types (code, diagrams, documents, PDFs)
- **Study Creation:** Customizable study design with questionnaires, quizzes, and evaluation tasks
- **Side-by-Side Comparison:** Interactive artifact comparison with annotation and rating tools

- **Competency Assessment:** Pre-study participant qualification through customizable quizzes
 - **AI Integration:** Automated quiz and artifact generation
 - **Analytics Dashboard:** Real-time progress monitoring and result visualization
 - **Data Export:** Export study results in multiple formats for research analysis
 - **Adaptive Task Assignment:** Dynamic task distribution based on participant skill levels
-

2. System Overview

2.1 Architecture

Insight Coding is built using a modern three-tier architecture:

- **Frontend:** React 18.2.0 application with Material-UI components
- **Backend:** Spring Boot 3.2.0 (Java 17) RESTful API
- **Database:** PostgreSQL 15 for persistent data storage

2.2 Technology Stack

Frontend Technologies

- React 18.2.0 - UI framework
- Material-UI (MUI) v7.3.4 - Component library
- React Router v6.20.0 - Navigation
- Axios 1.6.2 - HTTP client
- D3.js - Data visualization
- React-PDF - PDF artifact viewing
- React Syntax Highlighter - Code artifact rendering

Backend Technologies

- Spring Boot 3.2.0 - Application framework
- Spring Security - Authentication & authorization
- Spring Data JPA - Database access
- PostgreSQL 15 - Database
- Flyway - Database migrations
- JWT - Token-based authentication
- Maven - Build tool

Deployment

- Docker & Docker Compose - Containerization
 - Hot reload support for development
-

3. System Requirements

3.1 Hardware Requirements

Minimum Requirements

- **CPU:** Dual-core processor (2 GHz or higher)

- **RAM:** 4 GB
- **Storage:** 10 GB free disk space
- **Network:** Broadband internet connection

Recommended Requirements

- **CPU:** Quad-core processor (2.5 GHz or higher)
- **RAM:** 8 GB or more
- **Storage:** 20 GB free disk space (SSD preferred)
- **Network:** High-speed internet connection

3.2 Software Requirements

Required Software

1. **Docker Desktop**
 - Version: 20.10 or higher
 - Download: <https://www.docker.com/products/docker-desktop>
2. **Docker Compose**
 - Version: 1.29 or higher
 - (Included with Docker Desktop)
3. **Git** (for cloning the repository)
 - Version: 2.30 or higher
 - Download: <https://git-scm.com/downloads>

3.3 Browser Requirements

The application works best with modern web browsers:

- **Google Chrome** (version 90+) - Recommended
- **Mozilla Firefox** (version 88+)
- **Microsoft Edge** (version 90+)
- **Safari** (version 14+)

Note: JavaScript must be enabled in your browser.

3.4 Operating System Compatibility

- **Windows:** Windows 10/11 (64-bit)
- **macOS:** macOS 10.15 (Catalina) or higher
- **Linux:** Ubuntu 20.04+, Debian 10+, CentOS 8+, or equivalent

4. Installation Guide

4.1 Prerequisites Checklist

Before installation, ensure you have:

- Docker Desktop installed and running
- Git installed
- At least 10 GB of free disk space
- Administrative/sudo privileges (if required)

- Internet connection for downloading dependencies

4.2 Step-by-Step Installation

Step 1: Clone the Repository

Bash

```
# Open a terminal/command prompt and navigate to your desired directory
cd /path/to/your/workspace
```

```
# Clone the repository
git clone <repository-url>
```

```
# Navigate into the project directory
cd S2-T9
```

Step 2: Verify Docker Installation

Bash

```
# Check Docker version
docker --version
# Expected output: Docker version 20.10.x or higher
```

```
# Check Docker Compose version
docker-compose --version
# Expected output: docker-compose version 1.29.x or higher
```

```
# Verify Docker is running
docker ps
# Should show running containers or empty list (no errors)
```

Step 3: Review Configuration (Optional)

The application comes with default configuration. If you need to customize:

Database Configuration (Optional):

Edit docker-compose.yml to change default database credentials:

YAML

```
postgres:
  environment:
    POSTGRES_DB: artifact_comparator
    POSTGRES_USER: admin      # Change if desired
    POSTGRES_PASSWORD: admin123 # Change if desired
```

Port Configuration (Optional):

If ports 3000, 8080, or 5433 are already in use, modify the port mappings in docker-compose.yml:

YAML

```
frontend:  
  ports:  
    - "3000:3000" # Change left side to use different host port  
  
backend:  
  ports:  
    - "8080:8080" # Change left side to use different host port  
  
postgres:  
  ports:  
    - "5433:5432" # Change left side to use different host port
```

Step 4: Build the Application

Bash

```
# Build all Docker containers  
docker-compose up --build
```

```
# This will:  
# 1. Download base images (Node, Java, PostgreSQL)  
# 2. Install frontend dependencies  
# 3. Install backend dependencies  
# 4. Create container images
```

Expected build time: 5-10 minutes (first time only, depends on internet speed)

Step 5: Verify Installation

After building, you should see output similar to:

```
Successfully built <image-id>  
Successfully tagged s2-t9_frontend:latest  
Successfully built <image-id>  
Successfully tagged s2-t9_backend:latest
```

4.3 Troubleshooting Installation Issues

Docker Not Running

Symptom: Error message "Cannot connect to Docker daemon"

Solution:

1. Start Docker Desktop
2. Wait for Docker to fully initialize (whale icon in system tray)
3. Retry the command

Port Already in Use

Symptom: Error message "port is already allocated"

Solution:

1. Stop conflicting services or change port mappings (see Step 3)
2. Run: docker-compose down then retry

Build Failures

Symptom: Build errors during docker-compose build

Solution:

1. Ensure stable internet connection
2. Clear Docker cache: docker system prune -a
3. Retry: docker-compose build --no-cache

5. Running the Software

5.1 Starting the Application

Method 1: Using Docker Compose (Recommended)

For Windows (PowerShell/CMD):

Bash

```
# Navigate to project directory  
cd C:\Users\PC\OneDrive\Desktop\dev\csproject\S2-T9
```

```
# Start all services  
docker-compose up
```

For macOS/Linux:

Bash

```
# Navigate to project directory  
cd /path/to/S2-T9
```

```
# Start all services (with startup script)  
.start-dev.sh
```

```
# Or use docker-compose directly  
docker-compose up
```

Expected Output:

```
Creating network "s2-t9_app-network" ...  
Creating artifact-comparator-db ...  
Creating artifact-comparator-backend ...  
Creating artifact-comparator-frontend ...
```

 Services started!

Frontend: <http://localhost:3000>

Backend: http://localhost:8080

Database: localhost:5433

Method 2: Running in Detached Mode (Background)

Bash

```
# Start services in background  
docker-compose up -d
```

```
# View logs  
docker-compose logs -f
```

```
# Stop viewing logs (Ctrl+C)
```

5.2 Stopping the Application

Bash

```
# Stop all running containers (from project directory)  
docker-compose down
```

```
# Stop and remove volumes (deletes all data - use with caution!)  
docker-compose down -v
```

5.3 Accessing the Application

Once the services are running, access the application through your web browser:

1. **Frontend Application:** http://localhost:3000
 - This is the main user interface
2. **Backend API:** http://localhost:8080
 - REST API endpoints (for developers)
3. **Database:** localhost:5433
 - PostgreSQL database (requires database client)

5.4 First-Time Setup

The First Administrator Account

1. Navigate to <http://localhost:3000>
2. Username: admin
3. Password: admin123

6. User Guide

6.1 Getting Started

6.1.1 Registration and Login

New User Registration:

1. Navigate to http://localhost:3000
2. Click "**Sign Up**" (or "**Don't have an account? Sign up**")
3. Complete the registration form:

- **Full Name:** Enter your full name
 - **Email:** Enter a valid email address
 - **Password:** Create a strong password
 - **Confirm Password:** Re-enter your password
 - **Role:** Select your role (Researcher, Participant, Reviewer, or Admin)
 - **Country:** Select your country from dropdown
 - **Institution (Optional):** Your affiliated organization
 - **Agree to Terms:** Check the checkbox
4. Click "Sign Up"

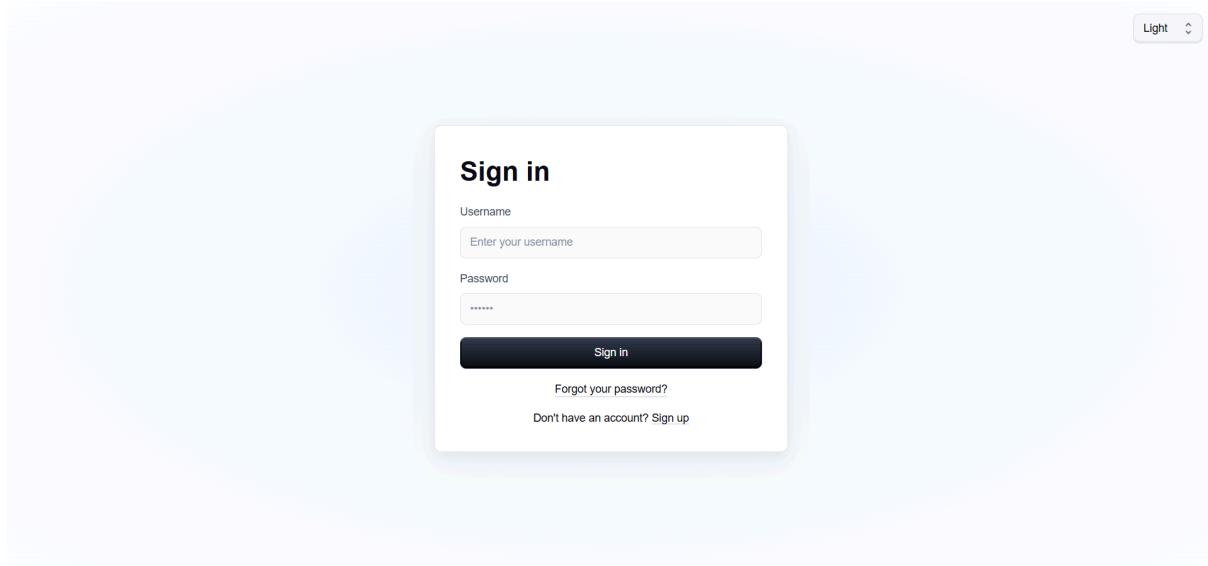
The screenshot shows a 'Sign up' form within a light-themed application window. The form fields include: 'Username' (placeholder 'Enter your username'), 'Full Name' (placeholder 'Enter your full name'), 'Email' (placeholder 'your@email.com'), 'Password' (redacted), 'Confirm Password' (redacted), 'Role' (dropdown menu set to 'Participant'), and a large 'Sign up' button at the bottom. A small link 'Already have an account? Sign in' is visible below the button.

What happens next:

- **Researchers & Admins:** Redirected to "Pending Approval" page. Wait for admin approval.
- **Participants:** Automatically approved, can sign in immediately
- **Reviewers:** Automatically approved, can sign in immediately

Signing In:

1. Navigate to <http://localhost:3000>
2. Enter your **Email** and **Password**
3. Click "**Sign In**"
4. You'll be redirected to your role-specific dashboard



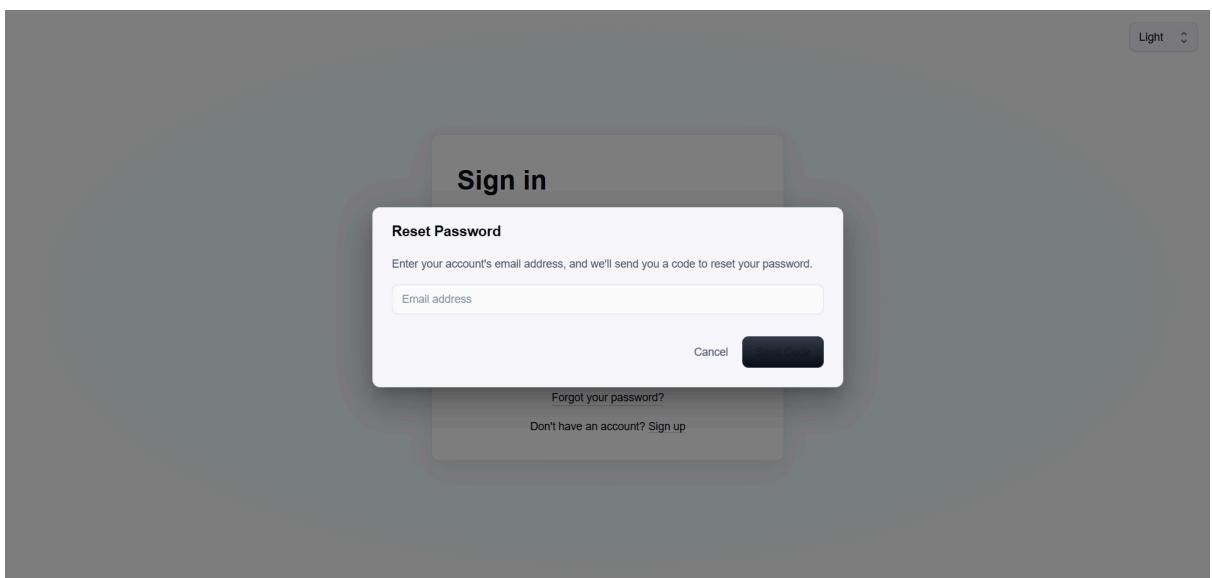
Account Status:

- **Pending Approval:** New researchers/admins/reviewers wait for approval
- **Rejected:** Contact administrator for details
- **Active:** Full access to platform features

6.1.2 Password Reset

If you forget your password:

1. Click "**Forgot Password?**" on sign-in page
2. Enter your registered email
3. Follow instructions sent to your email
4. Create a new password



6.2 User Roles and Permissions

6.2.1 Administrator

The screenshot shows the 'Overview' section of the Insight Lab Research Platform dashboard. On the left, a sidebar menu includes 'Overview', 'Users', 'Studies', 'Artifacts', 'Researcher Requests', and 'Reactivation Requests'. Below these are links for 'About', 'Profile', and 'Logout', along with a user profile icon for 'Efe Admin' (efe@admin.com). The main area displays three summary cards: 'Total Users' (4), 'Total Studies' (1), and 'Total Artifacts' (0). A 'Pending Actions' box contains two items: 'Researcher Requests' (0 awaiting approval) and 'Reactivation Requests' (0 awaiting review). Top right icons include a bell and a star.

Responsibilities:

- Manage platform users and access requests
- Monitor system-wide activity and studies
- Handle user approval/rejection/reactivation
- Configure system settings

Key Capabilities:

- Approve/reject researcher and admin registration requests
- Activate/deactivate user accounts
- View all studies and their statistics
- Monitor platform analytics
- Access detailed user information

6.2.2 Researcher

The screenshot shows the 'Overview' page of the Insight Lab Research Platform. The left sidebar contains navigation links for Overview, Studies, Artifacts, Questionnaires, AI Artifacts, AI Questions, and Statistics. The main area displays four summary cards: 'Total Studies' (0), 'Active Studies' (0), 'Total Participants' (0), and 'Avg Rating' (0.0). Below these are 'Quick Actions' buttons for Create New Study, Upload Artifact, AI Artifact Generator, Manage Questionnaires, and View Statistics. The 'Your Studies' section indicates 'No studies yet' and includes a 'Create New Study' button. A 'Go to Studies' link is also present. The bottom left of the sidebar shows the user profile: 'Default Researcher res@researcher.com'.

Responsibilities:

- Design and create research studies
- Upload and manage artifacts
- Create evaluation tasks and questionnaires
- Recruit and manage participants
- Monitor study progress
- Analyze and export results

Key Capabilities:

- Create customized studies
- Upload multiple artifact types
- Generate AI-assisted quizzes
- Assign tasks to participants
- Review participant submissions
- Export study data for analysis

6.2.3 Participant

Responsibilities:

- Complete assigned evaluation tasks
- Take competency quizzes
- Compare and annotate artifacts
- Submit evaluations on time

Key Capabilities:

- Enroll in studies
- Complete background questionnaires
- Take competency assessments
- Perform side-by-side artifact comparisons
- Annotate and rate artifacts
- Track personal progress

6.2.4 Reviewer

Responsibilities:

- Review participant submissions
- Grade evaluations
- Provide feedback on evaluations

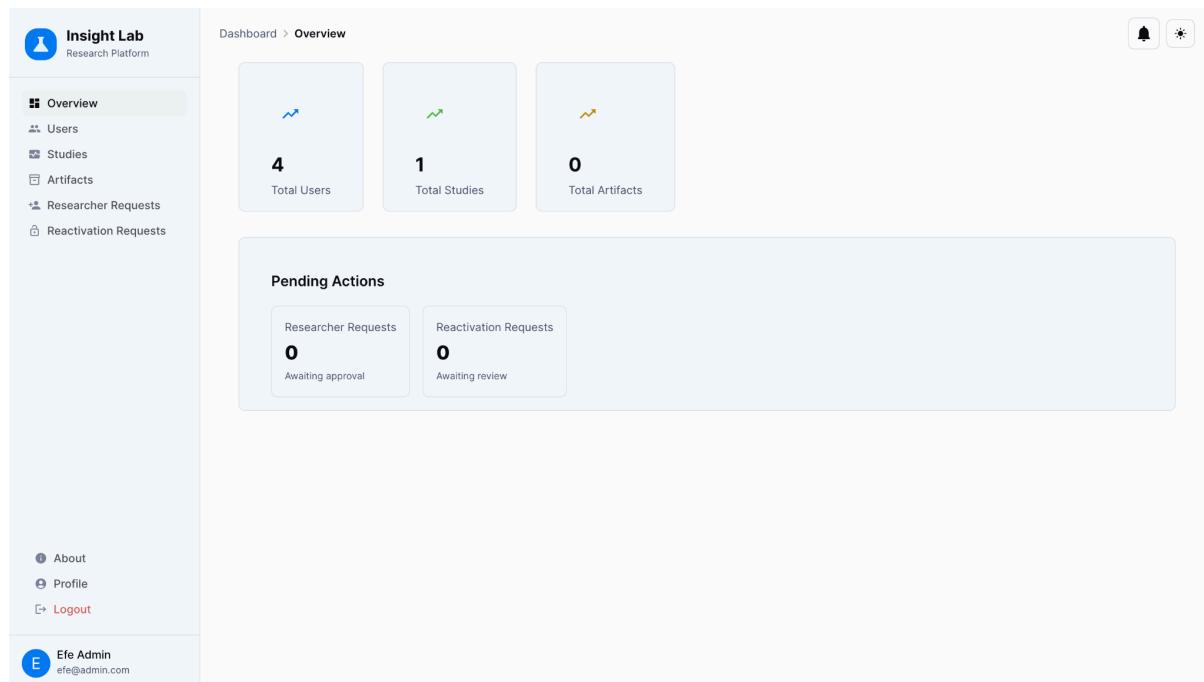
Key Capabilities:

- Access assigned submissions
- Review participant annotations and ratings
- Assign grades
- Provide detailed feedback

6.3 Administrator Guide

6.3.1 Admin Dashboard

After signing in as admin, you'll see the **Admin Overview Dashboard**:



Dashboard Sections:

- **User Statistics:** Total users by role, active users, pending approvals
- **Study Monitoring:** Active studies, total artifacts, task completion rates
- **Quick Actions:** Access to management functions

Navigation Menu:

- **Overview:** Dashboard home
- **Users:** Manage all platform users
- **Studies:** View all studies and their details
- **Artifacts, Researcher Requests, Reactivation Requests**

6.3.2 Managing User Requests

Approving Researcher Requests:

1. Click "**Users**" in sidebar
2. Click "**Researcher Requests**" in sidebar
3. View list of pending researcher applications
4. For each request, review:
 - o Full name
 - o Email
5. Decision:
 - o Click "**Approve**" to grant access
 - o Click "**Reject**" to deny

Managing Reactivation Requests:

1. Navigate to "**Reactivation Requests**"
2. View users requesting account reactivation
3. Review:
 - o User information
 - o Previous account status
 - o Reason for reactivation
4. Click "**Approve**" to reactivate or "**Reject**" to deny

6.3.3 Managing Users

View All Users:

1. Click "**Users**" in admin sidebar
2. See complete list of platform users
3. Filter by:
 - o Role (Admin, Researcher, Participant, Reviewer)
 - o Status (Active, Inactive, Pending)
 - o Search by name or email

User Actions:

- **View Profile:** See detailed user information
- **Deactivate:** Suspend user access (reversible)
- **Activate:** Restore inactive user
- **Edit Role:** Change user permissions (use carefully)
- **Delete:** Permanently remove user (use extreme caution)

User Details Include:

- Personal information (name, email, country)
- Role and permissions
- Registration date
- Studies participated in (for participants)
- Studies created (for researchers)

- Activity history

6.3.4 Monitoring Studies

Access Study Monitoring:

1. Click "**Studies**" in sidebar
2. View all studies across all researchers

Study Information:

- Study title and description
- Researcher name
- Creation date
- Status (Draft, Active, Completed, Archived)
- Number of participants enrolled
- Number of artifacts
- Number of evaluation tasks
- Completion statistics

Study Actions:

- **View Details:** See complete study configuration
- **Export Data:** Download study results
- **Archive:** Hide inactive studies

Study Statistics Include:

- Participant enrollment over time
- Task completion rates
- Submission statistics
- Quiz performance
- Artifact evaluation metrics

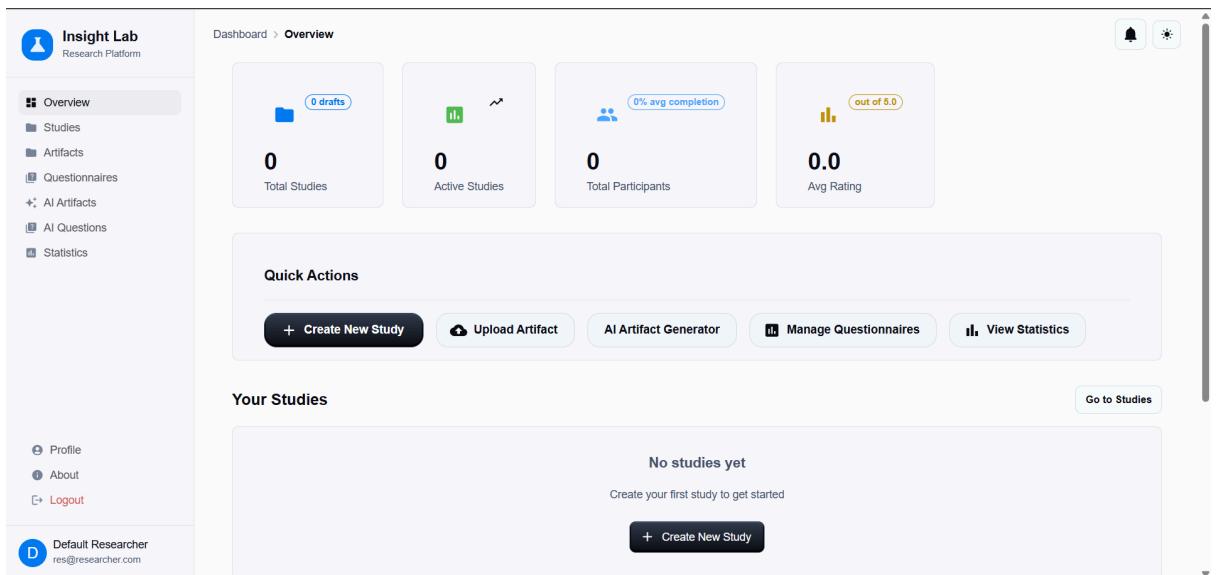
6.4 Researcher Guide

6.4.1 Researcher Dashboard

The researcher dashboard provides:

Overview Section:

- My Studies summary
- Active studies count
- Total participants
- Pending evaluations
- Recent activity



Quick Actions:

- Create New Study
- Upload Artifacts
- View My Studies
- Manage Questionnaires

Navigation:

- **Overview:** Dashboard home
- **Studies:** All your studies
- **Artifacts:** Artifact library
- **Questionnaires:** Quiz generation, update
- **AI Artifacts:** AI-assisted artifact generation
- **AI Questions:** AI-assisted quiz question generation
- **Settings:** Profile

6.4.2 Creating a Study

Step 1: Start New Study

1. Click "**Create Study**" button on dashboard
2. Or navigate to **My Studies** → "**Create New Study**"

Step 2: Basic Information

Fill in the study details form:

- **Study Title:** Descriptive title (e.g., "Java Code Quality Evaluation")
- **Description:** Detailed study purpose and goals
- **Objective:** Objective of the study
- **Duration:** Study timeline
 - Start Date
 - End Date

6.4.3 Managing Artifacts

Uploading Artifacts:

1. Navigate to **My Studies** → Select Study → **Artifacts**
2. Click "**Upload Artifacts**" button
3. Select artifact type:
 - Source Code (.java, .py, .js, .cpp, etc.)
 - UML Diagrams (.png, .jpg, .svg)
 - Documents (.txt, .md)
 - PDF Documents (.pdf)
 - Test Cases
 - Requirements Documents
4. Upload methods:
 - **Drag & Drop:** Drag files into upload area
 - **Browse:** Click to select files from file explorer
 - **Bulk Upload:** Upload multiple files at once
5. Click "**Upload**"

Organizing Artifacts:

- **Create Folders:** Group related artifacts
- **Add Tags:** For easy filtering and search
- **Edit Details:** Update artifact information
- **Preview:** View artifact before assigning
- **Delete:** Remove artifacts (if not assigned to tasks)

The screenshot shows the 'Artifacts' section of the Insight Lab Research Platform. The left sidebar has a navigation menu with 'Artifacts' highlighted. The main content area is titled 'Artifacts' and contains a message: 'View, upload, and filter your artifacts.' Below this is a search bar labeled 'Search artifacts by filename' and a 'Filter by Tags' dropdown. A message 'Showing 0 of 0 artifacts' is displayed. At the bottom, a large box says 'No artifacts uploaded yet' with the sub-instruction 'Upload your first artifact to get started'. A prominent 'Upload Artifact' button is located in the top right corner.

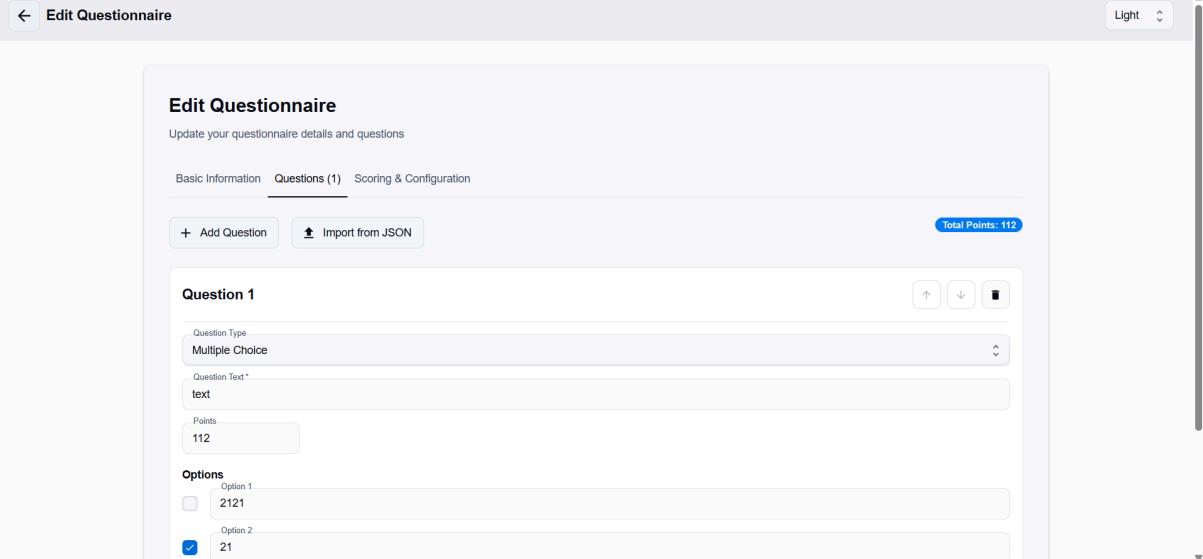
AI-Generated Artifacts:

1. Click "AI Artifacts"
2. Provide:
 - Problem description
 - Programming language
 - Desired artifact type
 - Constraints or requirements
3. Review generated artifact
4. Click "Approve" to add to library or "Regenerate" for alternatives

The screenshot shows the 'AI Artifact Generator' interface. On the left, the 'Prompt Builder' section includes fields for 'Title' (Java selected), 'Complexity' (Medium), and a 'Core task' description box. A note below the box states 'This field is required to run generation.' On the right, the 'Generation status' section shows 'Prompt ready' with a note to 'Fill the core task to enable generation.' It also includes sections for 'API access' (status: 'Add your Gemini key from dashboard settings.') and 'Review flow' (status: 'Generated files go to AI Artifact Approval for sign-off.'). Below these is a 'Prompt preview' section with a template for generating code, including fields for 'Title', 'Context', 'Core Task', 'Technical Requirements', and 'Acceptance Criteria'.

6.4.4 Creating Quizzes

Manual Quiz Creation:



The screenshot shows the 'Edit Questionnaire' interface. At the top, there's a header with a back arrow and the text 'Edit Questionnaire'. On the right, there's a 'Light' theme switch. Below the header, the title 'Edit Questionnaire' and subtitle 'Update your questionnaire details and questions' are displayed. A navigation bar at the top includes tabs for 'Basic Information', 'Questions (1)', and 'Scoring & Configuration'. Under 'Questions (1)', there are buttons for '+ Add Question' and 'Import from JSON'. To the right of the buttons, it says 'Total Points: 112'. The main area shows 'Question 1' with the following details:

- Question Type:** Multiple Choice
- Question Text:** text
- Points:** 112
- Options:**
 - Option 1: 2121 (unchecked)
 - Option 2: 21 (checked)

1. Navigate to **Study → Quizzes → "Create Quiz"**
2. Set quiz parameters:
 - **Title:** Quiz name
 - **Passing Score:** Minimum score to qualify (e.g., 70%)
 - **Time Limit:** Duration (optional)
3. Add questions:
 - **Multiple Choice:** One correct answer
 - **Multiple Select:** Multiple correct answers
 - **True/False:** Binary choice
 - **Code Analysis:** Provide code snippet and ask question
4. For each question:
 - Question text
 - Code snippet (if applicable)
 - Answer options
 - Correct answer(s)
 - Points value
 - Explanation (shown after submission)
5. Set question order:
 - Fixed: Same order for all participants
 - Randomized: Different order per participant
6. Preview quiz
7. Click "**Create Quiz**"

AI-Assisted Quiz Generation:

Generate Quiz Questions with AI
Use Google Gemini AI to automatically generate quiz questions. Select a questionnaire, enter a topic, and let AI create questions for you.

API Key Required
You need to add your Google Gemini API key in your profile settings to use this feature.
[Go to Profile Settings](#)

Select Questionnaire *
Topic *
Difficulty Level *
Medium
Number of Questions *
5
How many questions to generate (1-20)

Generate Questions

1. Click "**AI Questions**"
2. Provide:
 - Study topic/domain
 - Difficulty level (Beginner, Intermediate, Advanced)
 - Number of questions
 - Question types
3. AI generates questions based on study artifacts
4. Review each question:
 - Edit question text
 - Modify options
 - Adjust correct answers
 - Add explanations
5. Click "**Approve Questions**" to add to quiz
6. "**Reject**" or "**Regenerate**" individual questions

6.4.5 Creating Evaluation Tasks

Create Evaluation Task
ZXGKZ

Select Artifacts Define Criteria Configure Settings Review & Create

Task Title *
Description
Instructions

Study Artifacts

Selected Artifacts
No artifacts selected.

[Back](#) **Next**

Standard Comparison Task:

1. Navigate to **Study** → **Evaluation Tasks** → "Create New Task"
2. Configure task:
 - **Task Name:** Descriptive title
 - **Description:** Task instructions
 - **Type:** Side-by-Side Comparison
 - **Artifacts to Compare:** Select 2 or more artifacts
 - **Evaluation Criteria:** Define rating dimensions
3. Define evaluation criteria:
 - **Rating**
 - **Text**
 - **Single Choice**
 - **Multi Choice**
 - **Yes/No**
4. Settings:
 - Enable/disable inline annotations
 - Annotation types (Highlight, Tag, Annotation)
 - Blinded Mode
 - Assigned Participants
 - Due date
5. View summary
6. Click "**Create Task**"

Assigning Tasks to Participants:

1. Navigate to **Evaluation Tasks** → Select Task → "**View Participants**"
2. Choose participants to add
3. Set due date: When task must be completed
4. Click "**Add participants**"

Participants receive:

- Dashboard notification
- Task appears in their task list

6.4.6 Managing Participants

The screenshot shows a study management interface with the following details:

- Study Name:** zxxcxz
- Status:** DRAFT
- Started:** December 21, 2025
- Days Left:** 8 days left
- Participants:** Max: 12 participants
- Total Enrollments:** 1
- Invited:** 1
- Enrolled:** 0
- In Progress:** 0
- Completed:** 0
- Enrollment Capacity:** 1 / 12 (12 slots remaining)
- Last Update:** Updated 21:44:32
- Light Mode:** Enabled

Participant List:

Participant	Status	Progress	Enrolled At	Completed At	Days Remaining	Actions
Default Participant par@participant.com @par	INVITED	0%	Dec 14, 2025, 06:44 PM	-	8 days	⋮ 🔗

Viewing Enrolled Participants:

1. Navigate to **Study → Participants**
2. View participant list with:
 - Name and email
 - Enrollment date
 - Tasks assigned
 - Tasks completed
 - Overall progress percentage

Participant Management Actions:

- **Remove from Study:** Unenroll participant
- **Export Data:** Download participant's contributions

Monitoring Participant Progress:

- **Overall Completion:** Percentage of all tasks completed
- **Individual Progress:** Tasks per participant
- **Average Time:** Time spent per task

6.4.7 Reviewing Submissions

Accessing Submissions:

1. Navigate to **Study → Evaluation Tasks** → Select Task → **"Submissions"**
2. View list of submitted evaluations:
 - Submission date and time
 - Status (Submitted, In Review, Graded)

Reviewing a Submission:

1. Click **"View Submission"** for specific participant
2. See complete evaluation:

- Artifact comparisons made
 - Ratings given per criterion
 - Annotations and comments
 - Time spent on task
3. Review annotations:
 - Inline code comments
 - Highlighted sections
 - Issue reports
 - Suggestions
 4. Review ratings:
 - Numerical scores per criterion
 - Overall artifact preference
 - Confidence level
 - Notes
 5. Reviewer Evaluation
 - Status
 - Quality Score
 - Reviewer details (name, date)

Assigning to Reviewers:

The screenshot shows a study titled 'zxcxz' in draft mode, started on December 21, 2025, with 8 days left. The 'Reviewers' tab is selected. A single reviewer, 'Default Reviewer' (rev@reviewer.com), is listed. There are buttons for 'Select All' and 'Assign'.

1. Navigate to **Studies** → "**Reviewers**" on specific study
2. Choose reviewer from list
3. Click "**Assign Reviewers**"
4. Reviewer receives notification

6.4.8 AI Tools

AI Artifact Generator:

1. Navigate to **AI Artifacts** → "**Generate Artifact**"
2. Input parameters:
 - **Task Description:** What should the artifact do?

- **Language:** Programming language
 - **Artifact Type:** Code, test case, documentation
 - **Complexity:** Simple, moderate, complex
 - **Constraints:** Specific requirements
3. Click "**Generate**"
 4. Review generated artifact:
 - Syntax highlighting
 - Code structure
 - Comments and documentation
 5. Actions:
 - **Approve:** Add to artifact library
 - **Reject:** Discard

AI Question Generator:

1. Navigate to **AI Questions** → "**Generate Questions**"
2. Configure generation:
 - **Select Questionnaire:** Select which questionnaire you want to put
 - **Topic:** Study subject area
 - **Difficulty Level:** Easy, medium, hard
 - **Question Count:** Number to generate
3. Click "**Generate Questions**"
4. Review and approve questions individually

AI Approval Queue:

1. Navigate to **AI Artifacts** → "**AI Approvals**"
2. View all AI-generated artifacts awaiting approval:

3. Navigate to **AI Questions** → "**AI Approvals**"
4. View all AI-generated questions awaiting approval:

6.5 Participant Guide

6.5.1 Participant Dashboard

After signing in as participant, you'll see:

The screenshot shows the 'Overview' page of the Insight Lab Research Platform. On the left is a sidebar with a user icon, the platform name, and links for Overview, My Studies, Tasks, Quizzes, History, Profile, About, and Logout. The main area has a header 'Dashboard > Overview'. It features four cards: 'Active Studies' (1), 'Pending Quizzes' (0), 'Completed Studies' (0), and 'Completed Quizzes' (0). Below these are sections for 'Active Studies' (listing one study titled 'ZXCXCZ' with 8 days left and 0% progress) and 'Assigned Quizzes'.

Dashboard Overview:

- **Active Studies:** Studies you can enroll in
- **Pending Tasks:** Evaluation tasks awaiting completion
- **Assigned Quizzes:** Your submission history
- **Progress Tracking:** Overall completion percentage

6.5.2 Background Questionnaire

Completing Questionnaire:

1. After enrolling, you'll be prompted to complete questionnaire
2. Answer all questions:
 - Provide accurate information
 - Required questions marked with *
 - Some allow multiple selections
3. Review your answers
4. Click "**Submit**"

You cannot change answers after submission

6.5.3 Competency Quiz

Taking the Quiz:

1. Navigate to **Quizzes**
2. Click "**Start Quiz**"
3. Answer each question:
 - Read carefully
 - Select answer(s)
 - Review code snippets thoroughly
 - Use full time available
4. Navigate questions:
 - **Next:** Move to next question

- **Previous:** Go back
- 5. Review all answers before submitting
- 6. Click "**Submit Quiz**"

Quiz Results:

- Immediate feedback on score
- Pass/fail status

If you pass:

- Gain access to evaluation tasks
- Wait for researcher granting access

If you fail:

- Review study materials
- Asks for another quiz

6.5.4 Completing Evaluation Tasks

The screenshot shows the 'Evaluation Tasks' page of the Insight Lab platform. The left sidebar has a 'Tasks' link selected. The main content area shows a search bar and four task status tabs: All Tasks, Pending, In Progress, and Submitted. Below these, a message states 'Showing 0 of 0 tasks' and 'No tasks found'. A note below the message says 'You have no assigned tasks at the moment.'

Accessing Tasks:

1. Navigate to "**Tasks**" from dashboard
2. View assigned evaluation tasks:
 - Task name
 - Number of artifacts to compare
 - Deadline
 - Status (Not Started, In Progress, Completed)
3. Click "**Start Task**" on a pending task

Artifact Comparison Interface:

Layout:

- **Left Panel:** First artifact (Artifact A)
- **Right Panel:** Second artifact (Artifact B)
- **Bottom Panel:** Evaluation criteria and rating controls

Viewing Artifacts:

- **Code Artifacts:**
 - Syntax highlighting
 - Line numbers
- **PDF Artifacts:**
 - Page navigation
 - Zoom controls
- **Diagram Artifacts:**
 - High-resolution viewing

Making Annotations:

1. **Select Text/Code:**
 - Click and drag to highlight
2. **Add Annotation:**
 - Click "**Add Comment**" button
 - Choose annotation type:
 - Comment: General observation
 - Issue: Problem or bug
 - Suggestion: Improvement idea
 - Question: Unclear aspect
3. **Write Annotation:**
 - Describe your observation clearly
 - Be specific and constructive
 - Reference specific code if applicable
4. **Save Annotation**
 - Annotation appears inline
 - Can edit or delete before submission

Rating Artifacts:

1. Review all evaluation criteria provided
2. For each criterion (e.g., Code Quality, Readability):
 - **Artifact A Rating:** Select score (1-5 scale)
 - **Artifact B Rating:** Select score (1-5 scale)
 - **Justification:** Explain your ratings (optional but recommended)
3. **Overall Preference** (if required):
 - Which artifact is better overall?
 - Confidence level (Low, Medium, High)
 - Brief explanation

Saving Progress:

- Click "**Save Draft**" to save and continue later

- Your annotations and ratings are preserved
- Resume from where you left off

Submitting Evaluation:

1. Review all your ratings and annotations
2. Ensure you've met requirements:
 - All required criteria rated
 - Minimum annotations added
 - Justifications provided
3. Click "**Review Submission**"
4. Final check of all your input
5. Click "**Submit Evaluation**"

Post-Submission:

- Cannot modify after submission
- Task marked as completed
- May receive grade/feedback later

6.5.5 Tracking Progress

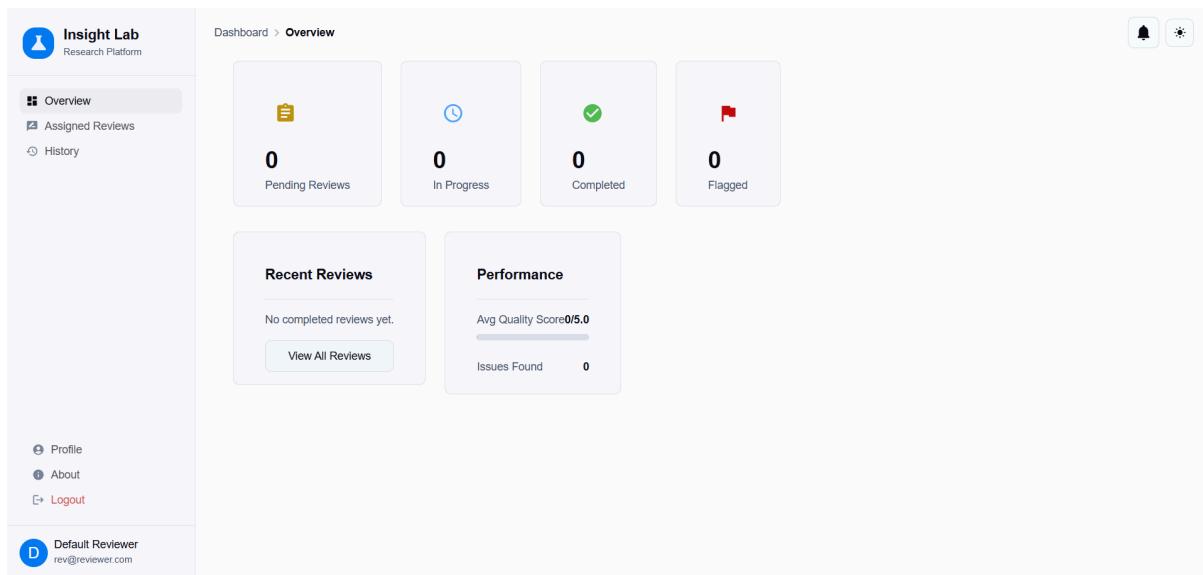
View Your Progress:

1. Navigate to "**History**"
2. See completion statistics:
 - Tasks completed vs. assigned
 - Studies enrolled in
 - Total time spent
 - Average task completion time
 - Grades received (if applicable)

6.6 Reviewer Guide

6.6.1 Reviewer Dashboard

After signing in as a reviewer, you are redirected to the **Reviewer Dashboard**, which provides an overview of your review workload and performance.



Page: Reviewer Dashboard

Dashboard Overview

The dashboard displays the following counters:

- **Pending Reviews** (count)
- **In Progress** (count)
- **Completed** (count)
- **Flagged** (count)

Recent Activity

- **Recent Reviews:** Latest completed review items

Performance Metrics

- **Average Quality Score:** 0–5
- **Total Issues Found:** Cumulative count

Navigation

- **View All Reviews** → Assigned Reviews
- **Tabs Available:**
 - Overview
 - Assigned Reviews
 - History

6.6.2 Reviewing Submissions

This section explains how reviewers access, evaluate, and complete assigned review tasks.

Accessing Assigned Work

The screenshot shows the 'Assigned Reviews' section of the Insight Lab platform. On the left sidebar, there are links for Overview, Assigned Reviews (which is selected), History, Profile, About, and Logout. The main area has a 'Review Summary' card with counts: 1 Total Reviews, 0 Pending, 1 In Progress, 0 Completed, and 0 Flagged. Below this is a 'Filters & Search' section with a search bar and dropdowns for Status (All Status) and Priority (All Priority). A table follows, showing one review entry:

Study Name	Assigned By	Date	Study Status	Priority	Completeness	Artifacts	Issues	Actions
ZXOX0Z	Default Researcher rev@reviewer.com	14.12.2025 18:46	In progress	medium	0%	12	-	

To view assigned reviews:

- Navigate to **Assigned Reviews**

Assigned Reviews Table Columns:

- Study Name
- Assigned By
- Date
- Status
- Priority
- Completeness
- Artifacts (count)
- Issues (count)

Available Actions

- If status is Pending:
 - Accept
 - Decline
- If already accepted or in progress:
 - Click **View** (eye icon)
→ Reviewer Workspace

Reviewer Evaluation View

This is the main interface used to inspect submissions and provide feedback.

Header Information

- Task title
- Participant label (alias if blinded)
- Assignment status chip
- **Blinded Mode** banner (if enabled)

What You Can View

The reviewer has read-only access to:

- Compared artifacts
- All participant annotations
- Participant criteria responses
(dynamic criteria or recorded scores)
- Participant notes and metadata, including:
 - Submission time
 - Time spent
 - Other recorded fields

Providing a Review

The following inputs are supported by the current system.

Reviewer Status (select one):

- Valid
- Suspicious
- Incomplete

Evaluation Quality Score

- Slider: 1–5

Reviewer Notes

- Single free-text field
- Optional

Action

- **Save Review**
-

7. How to Report a Bug

7.1 Before Reporting

Before submitting a bug report, please make sure the issue is valid and not already known.

Check if it's a known issue:

- Review the **Known Issues** section (if available)
- Check the project's issue tracker (if available)
- Search existing bug reports

Verify the issue:

- The issue is reproducible consistently
- It still occurs after clearing cache/cookies
- It occurs in a different browser
- The application and browser are up to date

7.2 Information to Include

When reporting a bug, include the following information to ensure faster and more accurate resolution.

Required Information

Bug Title

A short and descriptive summary of the issue

- Good: “Artifact upload fails for PDF files larger than 50MB”
- Bad: “Upload doesn’t work”

Description

- What happened?
- What did you expect to happen?
- Impact / severity of the issue

Steps to Reproduce

- Use numbered steps
- Include exact clicks, pages, and inputs
- Include exact error text (if any)

Expected Behavior

- Describe what should have happened

Actual Behavior

- Describe what actually happened

Evidence

- Screenshots (if applicable)
- Error messages
- Console errors (F12 → Console)
- Network errors (F12 → Network)

Environment

- Operating System (Windows / macOS / Linux)
- Browser and version
- Screen resolution (optional)
- Application version (Settings → About, if available)
- User role (Admin / Researcher / Participant / Reviewer)
- Timestamp (when the issue occurred)

7.3 How to Submit

Choose one of the following submission methods.

Option 1: GitHub Issues

- Open the repository
- Go to **Issues** → **New Issue**
- Fill in the bug report template
- Add relevant labels (e.g., `bug`, `priority`)
- Submit

Option 2: Email

- Subject: “**BUG REPORT: [Brief Description]**”
- Include all information from section 7.2
- Attach screenshots and logs if available
- Email: insightlabservice@gmail.com

8. Known Issues and Limitations

8.1 Known Bugs

Issue #1: Large File Upload Timeout

- **Status:** Known
- **Description:** Uploading artifacts larger than 100MB may timeout or fail
- **Affected:** All roles (Researchers, Participants, Admins)
- **Workaround:**
 - Compress files before upload
 - Ensure artifacts are under the 100MB limit
 - For Docker deployments, increase timeout in nginx configuration if using a reverse proxy
- **Planned Fix:** Version 1.1.0 - Implement chunked upload for large files

Issue #2: PDF Rendering Compatibility

- **Status:** Known
- **Description:** PDF artifacts using react-pdf library may have rendering inconsistencies across different browsers
- **Affected:** Participants and Reviewers evaluating PDF artifacts
- **Workaround:**
 - Use Chrome 90+ or Firefox 88+ for best PDF rendering experience
 - Ensure PDF files are not corrupted before upload
- **Technical Note:** Currently using react-pdf v7.7.0 which has known browser compatibility variations
- **Planned Fix:** Version 1.0.1 - Evaluate alternative PDF rendering libraries or fallback viewer

Issue #3: Concurrent Study Editing

- **Status:** Known
- **Description:** Multiple researchers editing the same study, quiz, or evaluation task simultaneously may result in conflicts or lost changes
- **Affected:** Researchers collaborating on the same study
- **Workaround:**
 - Coordinate edits through team communication
 - Avoid simultaneous editing of the same resources
 - Assign different study components to different researchers
- **Planned Fix:** Version 1.2.0 - Implement optimistic locking mechanism with conflict detection

Issue #4: Annotation Data Loss on Browser Crash

- **Status:** Known
- **Description:** Participant annotations and draft evaluations may be lost if browser crashes or tab is accidentally closed before saving
- **Affected:** Participants during artifact evaluation
- **Workaround:**
 - Use "Save Draft" button frequently
 - Complete evaluations in one session when possible

- **Planned Fix:** Version 1.1.0 - Implement auto-save with local storage backup

8.2 Current Limitations

Artifact Types and File Formats

Supported Artifact Types:

- **Evaluation Types:** Bug Reports, Code Clones, SOLID Violations, Snapshots
- **File Formats:**
 - Source Code: .java, .py, .js, .cpp, .c, .cs, .go, .ts, .tsx, .jsx
 - Documents: PDF (.pdf), Plain Text (.txt), Markdown (.md)
 - Data: JSON (.json), CSV (.csv)
 - Images: JPEG, PNG, WebP
 - Archives: ZIP
 - Other: Generic files (application/octet-stream)

Not Yet Supported:

- Video files (.mp4, .avi, .mov)
- Interactive demonstrations or executable binaries
- Real-time collaborative editing of artifacts
- Audio files
- 3D models or CAD files

File Size Constraints

- **Maximum file size:** 100MB per artifact
- **Maximum request size:** 100MB total per upload
- **Storage:** Configured via Docker volumes (default: unlimited, bound by host system)

Recommendation: For artifacts exceeding size limits, use compression or split into logical components

Export Formats

Available:

- CSV (Comma-Separated Values)
- XLSX (Microsoft Excel)
- PDF (Portable Document Format)

Not Available:

- SPSS data files
- R data frames (.rds, .RData)
- LaTeX tables
- MATLAB files

- Statistical software-specific formats

Browser Compatibility

Full Support:

- Chrome 90+
- Firefox 88+
- Microsoft Edge 90+

Limited Support:

- Safari 14+ (PDF rendering may have issues)
- Mobile browsers (UI not fully optimized for small screens)

Not Supported:

- Internet Explorer (deprecated and unsupported)
- Browsers with JavaScript disabled
- Text-only browsers

Recommendation: Use Chrome or Firefox for the best experience, especially when working with PDF artifacts or complex evaluations.

8.3 Performance Considerations

Database

- **Technology:** PostgreSQL 15
- **Configuration:** Default PostgreSQL settings via Docker
- **Maintenance:**
 - Regular maintenance recommended for production deployments
 - Weekly automatic cleanup of soft-deleted artifacts (when implemented)
 - Manual VACUUM recommended for studies with heavy delete operations

Recommendations:

- Configure PostgreSQL connection pooling for high-load scenarios
- Monitor database size for studies with thousands of evaluations
- Index optimization may be needed for large-scale deployments

Storage

- **Default Configuration:** Docker volume `artifact_storage`
- **Limit:** Bounded only by host system disk space
- **Compression:** Files stored as-is; no automatic compression
- **Path:** `/app/storage/artifacts` in container

Recommendations:

- Monitor disk usage regularly
- Implement artifact cleanup policies for old studies
- Consider external object storage (S3, Azure Blob) for production at scale
- Allowed MIME types configured in `application.properties`

Memory Usage

- **Backend:** Java Spring Boot application (default heap: 512MB-2GB)
- **Frontend:** React SPA (browser-dependent)
- **Database:** PostgreSQL (configurable, default 128MB shared_buffers)

Production Recommendations:

- Allocate at least 2GB heap for backend in production
- Monitor JVM garbage collection
- Configure PostgreSQL shared_buffers based on available RAM (25% of system memory recommended)

8.4 Security Limitations

Authentication

- **Current:** JWT-based authentication with role-based access control (RBAC)
- **Limitations:**
 - No multi-factor authentication (MFA)
 - No OAuth2/SAML integration
 - Session timeout fixed at 24 hours

Data Privacy

- **Limitations:**
 - No data encryption at rest (relies on host system security)
 - Basic CORS protection
 - No audit logging for data access

Recommendation:

- Use HTTPS in production (configure reverse proxy)
- Implement database encryption for sensitive deployments
- Add audit trails for compliance requirements

9. Troubleshooting

9.1 Common Issues and Solutions

Issue: Cannot Access Application (localhost:3000 not loading)

Symptoms:

- Browser shows "Connection refused" or "Can't reach this page"
- Frontend not accessible

Possible Causes & Solutions:

Docker containers not running

Bash

```
# Check container status  
docker-compose ps
```

```
# If containers are not running, start them
```

```
docker-compose up
```

1.

Frontend container crashed

Bash

```
# Check frontend logs  
docker-compose logs frontend
```

```
# Restart frontend
```

```
docker-compose restart frontend
```

2.

Port 3000 already in use

Bash

```
# Windows: Find process using port 3000
```

```
netstat -ano | findstr :3000
```

```
# Stop the process or change port in docker-compose.yml
```

3.

4. Browser cache issues

- Clear browser cache (Ctrl+Shift+Delete)
- Try incognito/private mode
- Try different browser

Issue: Login Failed / Authentication Errors

Symptoms:

- "Invalid credentials" despite correct password
- Redirected back to login page
- Session expires immediately

Solutions:

1. Verify account status

- Check email for approval notification (researchers/admins)
- Confirm account is active (not rejected/deactivated)

2. Password issues

- Ensure caps lock is off
- Check for extra spaces
- Use "Forgot Password" to reset

3. Browser cookies disabled

- Enable cookies in browser settings
- Add localhost:3000 to allowed sites

Clear application data

JavaScript

// In browser console (F12):

```
localStorage.clear();
sessionStorage.clear();
location.reload();
```

4.

Backend authentication service down

Bash

```
# Check backend logs
docker-compose logs backend
```

```
# Restart backend
docker-compose restart backend
```

5.

Issue: Artifact Upload Fails

Symptoms:

- Upload progress bar freezes
- Error message: "Upload failed"
- File disappears from upload queue

Solutions:

1. File too large

- Check file size (current limit: 100MB)
- Compress or split large files

Increase limit in `application.properties`:

Properties

```
spring.servlet.multipart.max-file-size=200MB
spring.servlet.multipart.max-request-size=200MB
```

○

2. Unsupported file type

- Verify file extension is supported
- Rename file if extension is correct but not recognized

Storage volume full

Bash

```
# Check Docker volume usage
```

```
docker system df -v
```

```
# Clean up unused data
```

```
docker system prune -v
```

3.

4. Network timeout

- Check internet connection
- Try smaller files first
- Upload during off-peak hours

Issue: Study/Task Not Appearing

Symptoms:

- Created study doesn't show in list
- Assigned task not visible to participant
- Data seems to be lost

Solutions:

1. Study still in draft mode

- Navigate to study settings
- Change status from "Draft" to "Active"
- Publish the study

2. Participant hasn't passed competency quiz

- Check quiz requirements
- Verify participant completed quiz
- Review passing score threshold

3. Task assignment failed

- Go to task → Participants
- Manually reassign task
- Check for error messages in researcher logs

Database synchronization issue

Bash

```
# Restart backend to sync
```

```
docker-compose restart backend
```

```
# Check database connection
```

```
docker-compose logs postgres
```

4.

5. Browser cache showing old data

- Hard refresh: Ctrl+F5 (Windows) / Cmd+Shift+R (Mac)
- Clear site data

- Logout and login again

Issue: PDF Artifacts Not Displaying

Symptoms:

- PDF shows blank page
- "Failed to load PDF" error
- Infinite loading spinner

Solutions:

- 1. PDF file corrupted**
 - Open PDF in external viewer to verify
 - Re-upload the PDF
 - Try different PDF if problem persists
- 2. Browser compatibility**
 - Switch to Chrome or Firefox
 - Update browser to latest version
 - Disable browser PDF viewer extensions
- 3. PDF.js worker issue**
 - Check browser console for errors
 - Clear cache and reload
 - Restart browser

File path issue

Bash

```
# Check backend logs for file access errors
docker-compose logs backend | grep -i pdf

# Verify file exists in storage volume
docker exec artifact-comparator-backend ls /app/storage/artifacts
4.
```

Issue: Database Connection Errors

Symptoms:

- Backend logs show "Connection refused"
- "Database unavailable" error
- Application fails to start

Solutions:

Database container not running

Bash

```
# Check postgres container
docker-compose ps postgres
```

```
# Start postgres
docker-compose up -d postgres
```

```
# Wait 10 seconds, then start backend  
docker-compose up -d backend  
1.  
2. Incorrect database credentials  
    ○ Verify credentials in docker-compose.yml match application.properties
```

Reset to defaults:

User: admin
Password: admin123
Database: artifact_comparator
○

Database corrupted

Bash
CAUTION: This deletes all data!
docker-compose down -v
docker-compose up --build
3.

Port conflict (5433)

Bash
Check if port 5433 is in use
`netstat -ano | findstr :5433`

Change port in `docker-compose.yml` if needed