

# **ISO Audit Management System**

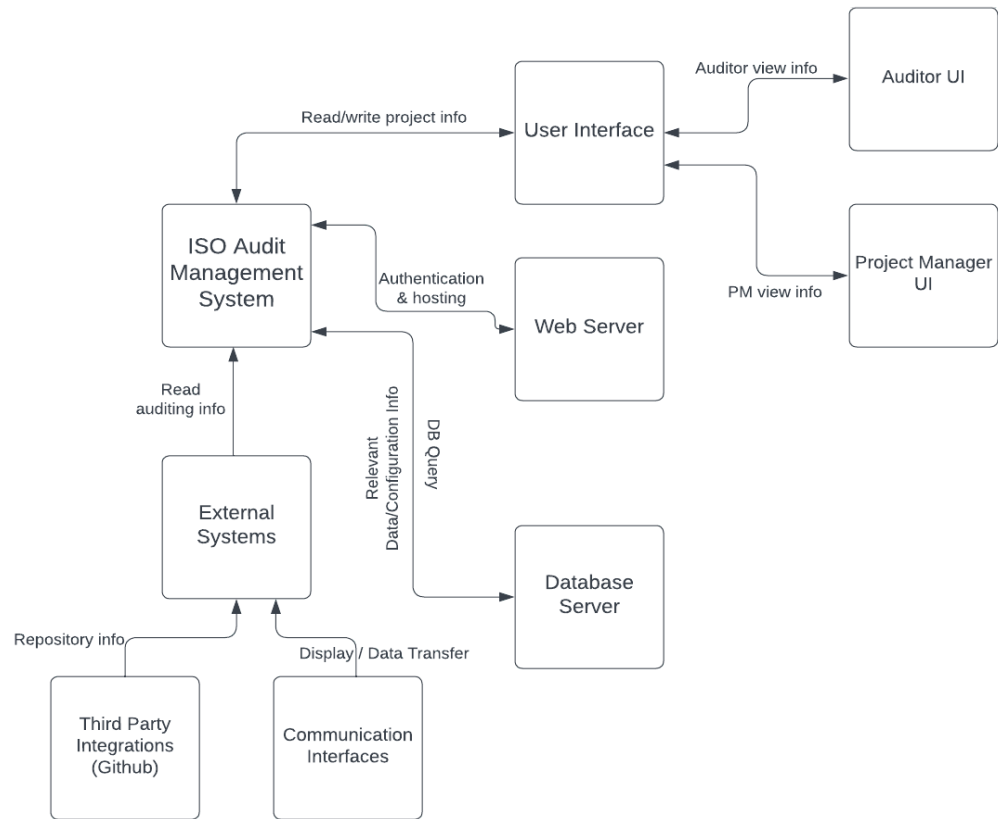
## **System Design Document**

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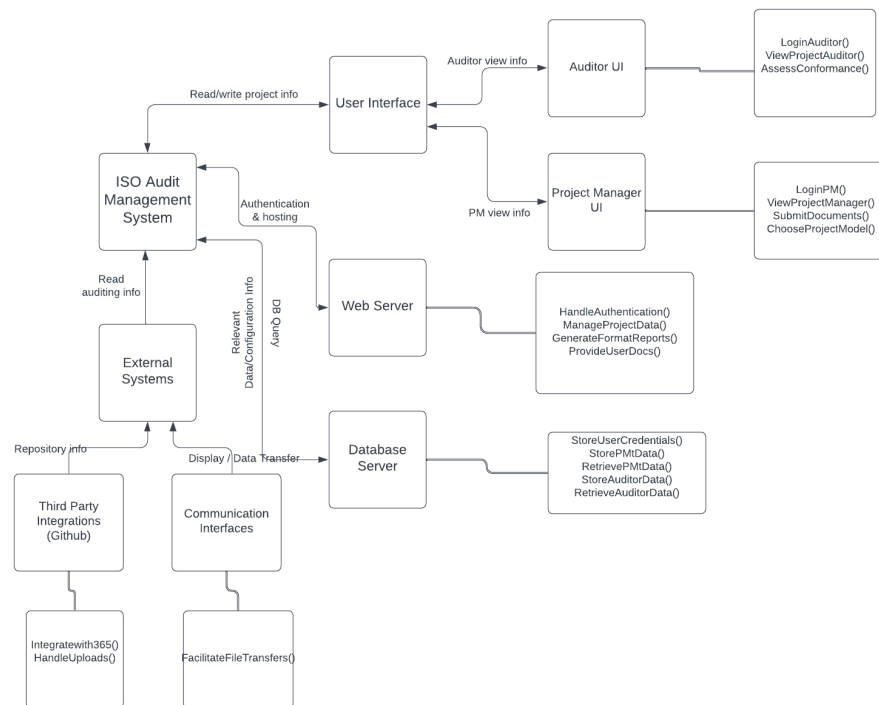
**Version 1.0**

**10/26/2023**

# Decomposition Description



# Dependency Description



## 1. Auditor UI

- LoginAuditor():
  - Input: Username and password
  - Output: Returns a true or false
  - Description: Allows auditors to log in and access projects for auditing.
- ViewProjectAuditor(): Shows the information for the auditor to view
  - Input: Auditor details
  - Output: Returns all the auditor's information to view on dashboard
  - Description: Displays project details, model, and associated documents for audit.
- AssessConformance(): Allows the auditor to send conformance scores
  - Input: Conformance percentage and comments
  - Output: Stores in database
  - Description: Enables auditors to assess conformance by specifying a percentage and uploading detailed feedback

## 2. Project Manager UI

- LoginPM(): Allows the PM to log in
  - Input: Username and password
  - Output: Returns a true or false

- Description: Allows project managers to log in and access their projects.
- ViewProjectManager(): Shows information for PM to view
  - Input: PM details
  - Output: All the PM's information to view on the dashboard
  - Description: Provides access to view previous audit requests and feedback.
- SubmitDocuments(): Allows the PM to submit documents
  - Input: Document, repository link
  - Output: Stores in database
  - Description: Facilitates the upload of associated project documents.
- ChooseProjectModel(): Allows the PM to choose the project model to follow
  - Input: Project models (waterfall, scrum, etc.)
  - Output: Stores in database
  - Description: Provides a choice of project models for project submission.

### 3. Web Server

- HandleAuthentication():
  - Input: Login information (username and password)
  - Output: Returns true or false
  - Description: Handles the authentication for the user. Fetches database information for the user and verifies if login credentials are correct.
- ManageProjectData():
  - Input: Information from SubmitDocuments(), ChooseProjectModel() and AssessConformance()
  - Output: Updates database with information
  - Description: allows for update of project information. Receives data from SubmitDocuments() and ChooseProjectModel() and stores/updates the database.
- GenerateFormatReports():
  - Input: data from SubmitDocuments(), ChooseProjectModel() and AssessConformance()
  - Output: Report in pdf or word format
  - Description: Takes in all the data from SubmitDocuments(), ChooseProjectModel() and AssessConformance() and generates a readable report in pdf or word format.
- ProvideUserDocumentation():
  - Input: NA
  - Output: Visual guide to how the website works
  - Description: Shows user documentation for the website

#### 4. Third Party Integrations

- `Integratewith365()`:
  - Input: Audit data, reporting templates
  - Output: Generated audit reports in Excel format
  - Description: Integrates with Microsoft Office 365 for generating and formatting audit reports in Excel format.
- `HandleUploads()`:
  - Input: Uploaded audit evidence documents
  - Output: Stored documents and file upload status
  - Description: Manages the secure upload of audit evidence documents, ensuring they are stored and associated with the relevant audits.

#### 5. Third Party Integrations

- `FacilitateFileTransfer()`:
  - Input: File upload and download requests, file transfer protocols
  - Output: Successfully transferred files
  - Description: Facilitates the secure transfer of uploaded audit evidence documents and audit reports using appropriate file transfer protocols.

#### 6. Database Server

- `StoreUserCredentials()`:
  - Input: User login credentials (username, encrypted password)
  - Output: Stored user credentials or error message
  - Description: Stores and manages user login credentials securely.
- `StorePMtData()`:
  - Input: Project details (name, date, members, etc.), project models, associated documents
  - Output: Stored project data or update confirmation
  - Description: Manages the storage of project-related data, including project details, models, and associated documents.
- `RetrievePMtData()`:
  - Input: Project ID or other identifiers
  - Output: Retrieved project data or error message
  - Description: Retrieves project data based on project identifiers, allowing access to project details for auditing.
- `StoreAuditorData()`:
  - Input: Audit submissions, including conformance percentages and feedback documents

- Output: Stored audit data or error message
- Description: Manages the storage of audit-related data, including conformance assessments and feedback documents.
- RetrieveAuditorData():
  - Input: Audit ID or other identifiers
  - Output: Retrieved audit data or error message
  - Description: Retrieves audit data based on audit identifiers, allowing access to previous audits and their statuses.