

IAMS Implementation Documentation

Most documentation and explanation is found in the README.md file as well as in various sections of the code.

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Database Model

iams_user (id: *int*, firstName: *varchar*, lastName: *varchar*, email: *varchar*, password: *varchar*, role: *varchar*, preferredLocation: *varchar*, preferredProject: *varchar*, status: *varchar*)

- No foreign keys

iams_org (orgName: *varchar*, repld: *int*, email: *varchar*, location: *varchar*, project: *varchar*)

- Foreign Keys: iams_user (id)

iams_allocation (orgName: *varchar*, id: *int*)

- Foreign Keys: iams_org (orgName), iams_user (id)

iams_grades (id: *int*, mark: *double*)

- Foreign Key: iams_user (id)

iams_logbook (id: *int*, name: *varchar*, file: *longblob*, date: *varchar*)

- Foreign Key: iams_user (id)

iams_report (id: *int*, name: *varchar*, file: *longblob*)

- Foreign Key: iams_user (id)

Testing

For Login

Username: 12345

Password: 12345

Expected result: error, invalid and incorrect username

Output: error.

Username: johnson@ub.ac.bw (assuming this is a registered user)

Password: 12345 (assuming correct password)

Expected result: successful login

Output: successful login

Student Registration

Name: Prudence

Surname: Mosimanyana

Email: prudence

...

Expected result: invalid email error

Output: invalid email error

Name: Prudence

Surname: Mosimanyana

Email: prudence

...

Password: 12345

Confirm Password: 12345555

Expected result: password mismatch error

Output: password mismatch error

Name: Prudence

Surname: Mosimanyana

Email: prudence@gmail.com

...

Password: 12345

Confirm Password: 12345

Expected results: successful registration
Actual results: successful registration

Organization Registration

Same validations as the student registration.

Submit Reports

ID: 1264538
Date: 2015-05-11
Select file

Expected result: error, wrong invalid ID
Output: database error, wrong id.

ID: 20230001 (assuming it exists in database)
Date: 2015-05-11
Select file

Expected result: successful submission
Output: successful submission

Entering Grades (Lecturer)

Grade: 120

Expected result: range error
Output: range error

Grade: 50

Expected result: successful entry
Output: successful entry