



D8.2: ACCEPTANCE TEST PLAN

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1 Introduction

1.1 Identification

Acceptance Test Plan for Internship Management System.

1.2 Related Documentation

- Acceptance Test Plan
- Requirements Specification (<http://fims.moodle.gla.ac.uk/file.php/128/coursework/requirements-specification-ge2.pdf>)

2 Test Cases

2.1 Utility Test Cases

2.1.1 Login Tests

Test Case Identifier	U-L001
Use Case	Login
Scenario	Student Primary
Setup	Connection to users.db is setup and active; connection to My-Campus credentials DB setup and active; DB contains student credentials for username 1100123D and password "pa\$\$word"
Includes	N/A
Input Specification	username="1100123D", password="pa\$\$word"
Output Specification	Student with the 1100123D matriculation is authenticated and set as current user.
Test Case Identifier	U-L002
Use Case	Login
Scenario	Student Alternative (Wrong Password)
Setup	connection to users.db is setup and active; connection to MyCampus credentials DB setup and active; DB contains student credentials for username 1100123D and password "pa\$\$word"
Includes	N/A
Input Specification	username="1100123D", password="iforgotit"
Output Specification	Authentication fails, an error message regarding user/password combination is displayed to the user.
Test Case Identifier	U-L003
Use Case	Login
Scenario	Student Alternative (Wrong Username)
Setup	Connection to users.db is setup and active; connection to My-Campus credentials DB setup and active; DB does not contain credentials for username 1100123D
Includes	N/A
Input Specification	username="1100123D", password="pa\$\$word".
Output Specification	Authentication fails, an error message regarding user/password combination is displayed to the user.
Test Case Identifier	U-L004
Use Case	Login
Scenario	Student Alternative (Database Unreachable)
Setup	Connection to users.db is setup and active; connection to My-Campus credentials DB setup unreachable
Includes	N/A
Input Specification	username="1100123D", password="pa\$\$word".
Output Specification	Authentication fails, an error message regarding DB connectivity is displayed to the user.

Test Case Identifier	U-L005
Use Case	Login
Scenario	Visitor Primary
Setup	Connection to users.db is setup and active; connection to My-Campus credentials DB setup and active; DB contains student credentials for username Visitor01 and password "iliketovisitvisit"
Includes	N/A
Input Specification	username="Visitor01", password="iliketovisitvisit"
Output Specification	Visitor with the Visitor01 username is authenticated and set as current user.
Test Case Identifier	U-L006
Use Case	Login
Scenario	Visitor Alternative (Wrong Username)
Setup	connection to users.db is setup and active; connection to MyCampus credentials DB setup and active; DB does not contain credentials for username Visitor01
Includes	N/A
Input Specification	username="Visitor01", password="ihopeihaveanaccount"
Output Specification	Authentication fails, an error message regarding user/password combination is displayed to the user.
Test Case Identifier	U-L007
Use Case	Login
Scenario	Employer Primary
Setup	Connection to users.db is setup and active; users.db contains employer credentials for username Google and password "ilikelongpasswordsandthisisnoexception"
Includes	N/A
Input Specification	username="Google", password="ilikelongpasswordsandthisisnoexception".
Output Specification	Employer with the Google username is authenticated and set as current user.
Test Case Identifier	U-L008
Use Case	Login
Scenario	Employer Alternative(Wrong Password)
Setup	Connection to users.db is setup and active; users.db contains employer credentials for username Google and password "ilikelongpasswordsandthisisnoexception"
Includes	N/A
Input Specification	username="Google", password="thisisntmypassword".
Output Specification	Authentication fails, an error message regarding user/password combination is displayed to the user.

Test Case Identifier	U-L009
Use Case	Login
Scenario	Employer Alternative (Wrong Username)
Setup	Connection to users.db is setup and active; connection to My-Campus credentials DB setup and active; DB does not contain credentials for username Google
Includes	N/A
Input Specification	username="Google", password="thisisntmypassword".
Output Specification	Authentication fails, an error message regarding user/password combination is displayed to the user.
Test Case Identifier	U-L010
Use Case	Login
Scenario	Employer Alternative (Database Unreachable)
Setup	Connection to users.db is setup but host is unreachable;
Includes	N/A
Input Specification	username="Google", password="thisisntmypassword".
Output Specification	Authentication fails, an error message regarding DB connectivity is displayed to the user.
Test Case Identifier	U-L011
Use Case	Login
Scenario	Coordinator Primary
Setup	Connection to users.db is setup and active; users.db contains employer credentials for username Google and password "ilikelongpasswordsandthisisnoexception"
Includes	N/A
Input Specification	username="Coordinator01", password="ilikevisitsandotherstuff".
Output Specification	Visitor with the Visitor01 username is authenticated and set as current user.
Test Case Identifier	U-L012
Use Case	Login
Scenario	Coordinator Alternative (Wrong Username)
Setup	Connection to users.db is setup and active; connection to My-Campus credentials DB setup and active; DB does not contain credentials for username Coordinator01
Includes	N/A
Input Specification	username="Coordinator01", password="ihopeihaveanaccount".
Output Specification	Authentication fails, an error message regarding user/password combination is displayed to the user.

2.1.2 View Advert Summary Tests

Test Case Identifier	U-A001
Use Case	View Advertisement Summary
Scenario	Student Primary
Setup	Connection to advertisements.db is setup and active
Includes	U-L001 (successful student login)
Input Specification	N/A.
Output Specification	A list of all approved advertisements is displayed to the student; Each advertisement should have the following information regarding their corresponding role(s): Employer name, Title, Start date, End date, Coordinator approved, Location, Salary.
Test Case Identifier	U-A002
Use Case	View Advertisement Summary
Scenario	Student Alternative (Database Unreachable)
Setup	Connection to advertisements.db is setup but host is unreachable;
Includes	U-L001 (successful student login)
Input Specification	N/A.
Output Specification	An error message regarding DB connectivity is displayed to the user.
Test Case Identifier	U-A003
Use Case	View Advertisement Summary
Scenario	Employer Primary
Setup	Connection to advertisements.db is setup and active
Includes	U-L007 (successful employer login)
Input Specification	N/A.
Output Specification	A list of all advertisements posted by current employer is displayed; Each advertisement should have the following information regarding their corresponding role(s): Employer name, Title, Start date, End date, Coordinator approved, Location, Salary.
Test Case Identifier	U-A004
Use Case	View Advertisement Summary
Scenario	Employer Alternative (Database Unreachable)
Setup	Connection to advertisements.db is setup but host is unreachable.
Includes	U-L007 (successful employer login)
Input Specification	N/A.
Output Specification	An error message regarding DB connectivity is displayed to the user.

Test Case Identifier	U-A005
Use Case	View Advertisement Summary
Scenario	Coordinator Primary
Setup	Connection to advertisements.db is setup and active
Includes	U-L012 (successful coordinator login)
Input Specification	N/A.
Output Specification	A list of all advertisements is displayed to the coordinator; Each advertisement should have the following information regarding their corresponding role(s): Employer name, Title, Start date, End date, Coordinator approved, Location, Salary.
Test Case Identifier	U-A006
Use Case	View Advertisement Summary
Scenario	Coordinator Alternative (Database Unreachable)
Setup	Connection to advertisements.db is setup but host is unreachable.
Includes	U-L012 (successful coordinator login)
Input Specification	N/A.
Output Specification	An error message regarding DB connectivity is displayed to the user.

2.2 Advert Management Use Cases

2.2.1 View Advertisement Detail Tests

Test Case Identifier	AM-A001
Use Case	View Advertisement Detail
Scenario	Student Primary
Setup	Advertisements.db is setup and active; advertisements.db contains an approved advert with the id 123001.
Includes	U-A001 (View advertisement summary)
Input Specification	index=123001, Advert Status = PUBLISHED.
Output Specification	Student is presented with the following information regarding the placement: Employer name and contact, The location where the roles will be based, How to apply for the listed roles, Course Co-ordinator comment; Student is presented with the following information regarding the role: Title, Start and end dates, Description, Salary, Whether the Role has been approved as appropriate for SESP.
Test Case Identifier	AM-A002
Use Case	View Advertisement Detail
Scenario	Student Alternative (Unapproved Advert)
Setup	Advertisements.db is setup and active; advertisements.db contains an unapproved advert with the id 123456.
Includes	U-A001 (View advertisement summary)
Input Specification	index=123456, Advert Status = PENDING.
Output Specification	Error message regarding insufficient privileges to view the advert is displayed.
Test Case Identifier	AM-A003
Use Case	View Advertisement Detail
Scenario	Coordinator Primary
Setup	Advertisements.db is setup and active; advertisements.db contains an approved advert with the id 123001.
Includes	U-A005 (View advertisement summary - coordinator)
Input Specification	index=123001
Output Specification	Coordinator is presented with the following information regarding the placement: Employer name and contact, The location where the roles will be based, How to apply for the listed roles, Course Coordinator comment; Coordinator is presented with the following information regarding the role: Title, Start and end dates, Description, Salary, Whether the Role has been approved as appropriate for SESP.

Test Case Identifier	AM-A004
Use Case	View Advertisement Detail
Scenario	Employer Primary
Setup	Advertisements.db is setup and active; advertisements.db contains an advert with the id 123001, owned by the current Employer.
Includes	U-A003 (View advertisement summary - employer)
Input Specification	index=123001
Output Specification	Employer is presented with the following information regarding the placement: Employer name and contact, The location where the roles will be based, How to apply for the listed roles, CourseCoordinator comment; Employer is presented with the following information regarding the role: Title, Start and end dates, Description, Salary, Whether the Role has been approved as appropriate for SESP.
Test Case Identifier	AM-A005
Use Case	View Advertisement Detail
Scenario	Employer Alternative (Forbidden)
Setup	Advertisements.db is setup and active; advertisements.db contains an advert with the id 123456, owned by someone other than the current Employer.
Includes	U-A003 (View advertisement summary - employer)
Input Specification	index=123456
Output Specification	Error message regarding insufficient privileges to view the advert is displayed.

2.2.2 Register Employer Tests

Test Case Identifier	AM-RE001
Use Case	Register Employer
Scenario	Primary
Setup	Users.db is setup and active.
Includes	U-L012 (successful coordinator login)
Input Specification	name="AwesomeCompany", email="hr@ac.com"
Output Specification	A new employer entry is created in users.db, with the a randomly generated username and a randomly generated password. This username will be different than all users in users.db. An email is sent to the provided address containing the username and password of the newly created employer account.

2.2.3 Submit Advertisement Tests

Test Case Identifier	AM-SA001
Use Case	Submit Advertisement
Scenario	Coordinator Primary
Setup	Users.db and advertisements.db are setup and active.
Includes	U-L012 (successful coordinator login)
Input Specification	applicationDetails="employer details, location, application, process details, role title, dates, description, salary"
Output Specification	A new advertisement entry containing the provided information is inserted into advertisements.db. Its status is set to pending.
Test Case Identifier	AM-SA002
Use Case	Submit Advertisement
Scenario	Employer Primary
Setup	Users.db and advertisements.db are setup and active.
Includes	U-L001 (successful employer login)
Input Specification	applicationDetails="employer details, location, application, process details, role title, dates, description, salary"
Output Specification	A new advertisement entry containing the provided information is inserted into advertisements.db. Its status is set to pending.

2.2.4 Publish Advertisement Tests

Test Case Identifier	AM-PA001
Use Case	Publish Advertisement
Scenario	Primary
Setup	Advertisements.db are setup and active; advert with id 123005 exists with the status "PENDING"
Includes	AM-A003 (Coordinator View Advertisement Detail)
Input Specification	index="123005", comment="comment about advert", SESP=true
Output Specification	The advert with index 123005 is published with the provided comment and its role set as being SESP compliant.
Test Case Identifier	AM-PA002
Use Case	Publish Advertisement
Scenario	Alternative (Already Published)
Setup	Advertisements.db are setup and active; advert with id 123006 exists with the status "PUBLISHED"
Includes	AM-A003 (Coordinator View Advertisement Detail)
Input Specification	index="123006", comment="comment about advert", SESP=true
Output Specification	An error will be displayed informing that the advert's status was "PUBLISHED".

Test Case Identifier	AM-PA003
Use Case	Publish Advertisement
Scenario	Alternative (Advert Not Found)
Setup	Advertisements.db ares setup and active; advert with id 123007 does not exist in the db
Includes	AM-A003 (Coordinator View Advertisement Detail)
Input Specification	index="123007", comment="comment about advert", SESP=true
Output Specification	An error will be displayed informing that the desired advert does not exist.

2.3 Offer Management Use Cases

2.3.1 View Student Detail Tests

Test Case Identifier	OM-VS001
Use Case	View Student Detail
Scenario	Coordinator Primary
Setup	Users.db is setup and active; student with the matriculation 1230123Q exists in the database.
Includes	U-L012 (Coordinator login)
Input Specification	matriculation="1230123Q"
Output Specification	The coordinator receives the following information about the selected student: Name, Matriculation, Programme, Internship status. If the Student has accepted an "APPROVED" internship role, further information is visible: Internship role title, Internship start and end dates, Internship location, Internship salary, Internship employer name, Internship contact details, Internship manager details. If available, Visitor Name and Visit Grade should be displayed.
Test Case Identifier	OM-VS002
Use Case	View Student Detail
Scenario	Student Primary
Setup	Users.db is setup and active;
Includes	U-L002 (Student login)
Input Specification	matric="1230123Q"
Output Specification	The student receives the following information about himself: Name, Matriculation, Programme, Internship status. If the Student has accepted an "APPROVED" internship role, further information is visible: Internship role title, Internship start and end dates, Internship location, Internship salary, Internship employer name, Internship contact details, Internship manager details. If available, Visitor Name and Visit Grade should be displayed.

Test Case Identifier	OM-VS003
Use Case	View Student Detail
Scenario	Visitor Primary
Setup	Users.db is setup and active; current user is visitor but not coordinator; student with the matric 1230123Q exists in the database, and has assigned the current visitor as an Internship Visitor
Includes	U-L006 (Visitor login)
Input Specification	matric="1230123Q". Visitor guid="1234321", password="password"
Output Specification	The visitor receives the following information about himself: Name, Matriculation, Programme, Internship status, Internship role title, Internship start and end dates, Internship location, Internship salary, Internship employer name, Internship contact details, Internship manager details, Visitor Name. If available, Visit Grade should be displayed.
Test Case Identifier	OM-VS004
Use Case	View Student Detail
Scenario	Visitor Alternative (Forbidden)
Setup	Users.db is setup and active; current user is visitor but not coordinator; student with the matric 1230123Q exists in the database, but has no assigned visitor.
Includes	U-L006 (Visitor login)
Input Specification	matric="1230123Q"
Output Specification	The visitor receives an error message regarding insufficient privileges to view the student's details.

2.3.2 Notify Accepted Offer Tests

Test Case Identifier	OM-NA001
Use Case	Notify Accepted Offer
Scenario	Student Primary (Existing)
Setup	Advertisements.db and users.db are setup and active; role with id r1234 exists with the status "APPROVED".
Includes	AM-A001 (Student View Advertisement Detail)
Input Specification	role="r1234", manager Name = "John Smith", manager Email="john@google.com", advert id = 123001
Output Specification	The student is being flagged as having accepted an "APPROVED" internship.

Test Case Identifier	OM-NA002
Use Case	Notify Accepted Offer
Scenario	Student Alternative (New)
Setup	Advertisements.db and users.db are setup and active.
Includes	AM-A001 (Student View Advertisement Detail)
Input Specification	rtitle="roleTitle", location="Glasgow", start="01/06/13", end="01/09/13", description="soft dev", salary=300.33
Output Specification	Email is sent to coordinator with details about the self-sourced role. A new "PENDING" internship is created in the system with the provided details. Student is being flagged as having accepted a "PENDING" internship.

2.3.3 Approve Accepted Offer Tests

Test Case Identifier	OM-AA001
Use Case	Approve Accepted Offer
Scenario	Primary
Setup	Advertisements.db and users.db are setup and active; student with matric 1234001 exists and has an internship with the "PENDING" status
Includes	U-L012 (Coordinator login)
Input Specification	matric="1234001"
Output Specification	Internship status is set to "APPROVED". Student is sent a confirmation email.

Test Case Identifier	OM-A002
Use Case	Approve Accepted Offer
Scenario	Alternative (No Internship Found)
Setup	Advertisements.db and users.db are setup and active; student with matric 1234001 but has no internship associated
Includes	U-L012 (Coordinator login)
Input Specification	matric="1234001"
Output Specification	Coordinator receives an error message saying that the user has no internship.

2.4 Non-Functional Requirements

Test Case Identifier	NF-003
Requirement	"The system shall realise the Facade interface provided to ensure compatibility with other user interface implementations."
Setup	N/A
Includes	N/A
Input Specification	N/A
Output Specification	N/A.

Test Case Identifier	NF-004
Requirement	“The system shall support at least 50 advertisements with at least one role per advert.”
Setup	N/A
Includes	N/A
Input Specification	List of 50 unique advert id’s and role id’s.
Output Specification	50 students are stored successfully.
Test Case Identifier	NF-005
Requirement	“The system shall support at least 50 employers.”
Setup	Generate 50 employers each which a random but unique id.
Includes	N/A
Input Specification	List of 50 unique employer id’s
Output Specification	50 employers are stored successfully.
Test Case Identifier	NF-006
Requirement	“The system shall support at least 50 registered SESP students.”
Setup	Generate 50 students each which a random but unique GUID
Includes	N/A
Input Specification	List of 50 unique student GUIDs
Output Specification	50 SESP students stored successfully.
Test Case Identifier	NF-007
Requirement	“The system shall support at least 100 concurrent users.”
Setup	Generate 100 users each which a random but unique GUID.
Includes	N/A
Input Specification	List of 100 unique GUIDs.
Output Specification	100 users stored sucessfully.

3 Test Execution

Where possible tests should be implemented using the JUnit test framework. Tests which must be performed manually should be clearly marked in the corresponding acceptance test report.

Naturally there may be some omissions in the test inputs laid out here, particularly if the provided implementation requires any non-standard setup or does not conform to the domain model provided. If this is the case, any additions to the inputs should be well documented in the acceptance test report.