

INFM 747 – Web Enabled Database Design  
Project Proposal



COLLEGE OF  
INFORMATION  
STUDIES

**Topic**

**AWIC Workshop Database**

**Submitted by-**

**Rahul Bahadur**

### Purpose of this application:

This project aims to create a front-end web application for a database (already developed as a part of INST733 project) for National Agricultural Library's (NAL) workshops.

The Animal Welfare Information Center (AWIC), which is a part of NAL conducts Animal Welfare Act (AWA) workshops throughout the year for individuals who are responsible for providing information to meet the requirements of the AWA. The AWIC workshop is limited to 20 participants thus having 60 participants for a year. This workshop is conducted at NAL, Beltsville and other locations across the country. The database was created by keeping in mind all the parameters that need to be accounted for while accepting registrations for the workshops. The database design has already been approved by NAL.

The application would help NAL in keeping records of the Attendees, Organizations, the payments details, the workshop details and the trainer details for the future workshops.

### Scope of this application:

This application should be able to capture the following details.

1. The details about the workshop's attendee. Things like :
  - a. Name
  - b. Address
  - c. IACUC member status
  - d. Whether the attendee is a principal investigator
  - e. Whether the attendee is an experienced DB researcher
2. The Workshop's details like
  - a. Topic
  - b. Start and end date
  - c. Location
  - d. Overall rating
  - e. Presentation quality
3. AWIC trainer details:
  - a. Trainer name
  - b. Her/his organization

4. Organization Details:
  - a. Name
  - b. Whether host
  - c. Whether Sponsor
5. Payment info:
  - a. Receipt number
  - b. Amount paid
  - c. Payment date
  - d. Whether payment successful

In addition to capturing these details, the application should also return relevant results when asked to do so. Details of which are given below:

1. Ratings of AWIC workshops:

Workshop ratings are really important for NAL to assess how much of use the attendees are getting from the conducted workshops. One of the important measures according to them to measure the same is how the attendees have rated the quality of the presentation. This would help NAL to decide if there are any changes that need to be done (i.e. change the trainers/inform the organizations about the poor presentation quality). Hence, a query which returns a sorted list of all the workshops in the order of the presentation quality rating received from the attendees would be very useful.

2. Amount paid by each of the participating organizations:

Various organizations pay NAL in order to conduct workshops. The organizations are responsible for the attendees fees as well, and hence would be paying that as well. NAL wanted an easy way to find out which organization is paying the highest amount at present, and also an ordered list of the total amount paid by each organization. The application should return an ordered list of all the organizations in connection with NAL and the total amount they are paying.

3. All details about the attendees for each workshop:

This application should return details about all the attendees who have registered (including waitlist) so far for the workshop. The results are to be grouped by the unique workshop ID.

4. Attendees who are eligible to attend a particular workshop (Not on the waitlist).

There is a limit of only twenty persons who are eligible to attend. However, for simplification the limit has been set to ten for this project. Rest of the people would be automatically put on the waitlist with the help of one of the stored procedures (details given in the .sql file). This application should help to retrieve the first ten attendees that the organization registered for any particular workshop. This data will be useful to check how many people to actually contact regarding the various details about the workshops.

5. When is the best time to hold a workshop:

As mentioned above, attendees are sent through organizations to participate in the workshops. NAL wanted a way to find out the total number of attendees each organization is sending. They would further like to use this data to do a comparative analysis across various months of the year, in order to decide when to hold what workshops. This application should return a list of workshops, and the total number of registered applicants for each (including waitlist) grouped by the time of the month.

6. Attendees having database experience:

One of the important things NAL needs to know about the attendees is whether an attendee is experienced with databases or not. This application should help NAL to find out the ratio of the number of attendees who are experienced in databases to the number of them who aren't. This would be very helpful for the faculty to design the workshop material, since it gives insights about whether most of the attendees are already comfortable with database concepts.

### Expected user population:

This application is currently intended to be used only by the AWIC workshop supervisor at NAL. Since the workshops, though conducted on a large geographical expanse, are limited in number – being conducted only thrice in a year, the supervisor is the sole person who has the rights to create workshops, add attendees to it and receive payments on behalf of NAL.

### Relevant tables:

Table Name	Description
<b>attendee</b>	Each row contains the list of the attendee's ID (primary key), their first and last name, title, city, state, Zip_code, phone number, email address, whether the person is a current member of IACUC_member_status, whether the person is a principal_investigator, an experienced_db_searcher and a foreign key linking the attendee to the organization from which he is associated.
<b>workshop_has_attendee</b>	It is a join table which links the workshop_id from the workshop table to the attendee_id of the attendee table. Each workshop can have more than one attendee.
<b>payment_info</b>	This table has receipt number as primary key along with org_id, amount_paid, payment_date, payment_success.
<b>awic_trainer`</b>	This table has the details of the trainers who are conducting the workshop. The trainer_id is the primary key. This table also has the trainer_name along with org2_id as the foreign key linking this table with the organization table.

<b>organization</b>	This table records all the details of the organizations associated with the workshops – those who are the host as well as those which are attending it. It has the organization_id as the primary key, along with the organization_name and whether the organization is a host or a sponsor (boolean).
<b>workshop_trainer</b>	This join table has workshopID, trainerID.

### List of views (Mock up screens):

A few of the application's front end screens are shown below. These, however, are not final and are liable to change.

1. Add a workshop:

## Add a Workshop

Workshop ID: 18

Workshop Topic:

Start Date:

End Date:

Trainer Name/ID:

[Add New Trainer](#)

Organization Name/ID:

[Add New Organization](#)

Location Address:

ZIP

Presentation Type:  ▼

[Add Attendees Here](#)

2. Add a trainer:

## Add a Trainer

Trainer ID: 21

Trainer Name:

Organization Name/ID:

[Add New Organization](#)

3. Add an Organization:

## Add an Organization

Organization ID: 200

Organization Name:

Whether host?

☒ Yes

☐ No

Whether sponsor?

☒ Yes

☐ No

Add

4. Add an attendee:

## Add an attendee

Attendee ID: 18

First Name:

Last Name:

Title:

Select ▼

Email ID:

City

State:

ZIP:

Phone:

IACUC Member?

☒ Yes

☐ No

Experienced DB Searcher?

☒ Yes

☐ No

Organization Name/ID:

Search

[Add New Organization](#)

Add



## 5. Add a payment

### Add a Payment

Payment ID: 18

Amount Paid:

Receipt Number:

Organization Name/ID:

Successful payment? ☒ Yes ☐ No

## Entity Relationship diagram:

