

INTERNET APPLICATION PROGRAMMING

With ease of support being uppermost in the minds of companies in today's market, programs that serve via an Internet browser are faster and much easier to maintain. Internet Application Programming focuses on systems that are used over the Internet or an intranet. This event tests the programmer's skill in designing a useful, efficient, and effective program.

PROJECT COMPETENCIES

- document addresses topic and is appropriate for the audience
- graphics, text treatment, and special effects show creativity and cohesiveness of design
- appropriate selection of fonts and type sizes
- overall layout and design is creative and appealing
- final product indicates a clear thought process and an intended, planned direction with formulation and execution of a firm idea
- required information is effectively communicated
- copyright laws followed

PERFORMANCE COMPETENCIES

- explanation of the program is logical and systematic
- understanding a program language is evident
- design process effectively communicated
- tips, techniques, and tools used are presented
- voice quality and diction are appropriate for the setting
- self-confidence apparent through knowledge of content and articulation of ideas

NBEA STANDARDS REINFORCED BY EVENT

Information Technology: computer architecture; operating systems, environments, and utilities; systems analysis and design; communications and networking infrastructures; network applications

Management: technology and information management

CAREER CLUSTERS: Business, Management and Administration; Information Technology

Eligibility

Each chapter may enter one participant in this event.

1. Participants must be on record in the state and national offices as having paid dues by February 15.
2. Participants must be selected in accordance with the regulations of the local chapter and state association.
3. Participants failing to report on time for the event will not be permitted to compete.
4. Participants must adhere to the dress code established by the Board of Directors, or they will not be permitted to participate in the competitive event.

OVERVIEW

This event consists of two (2) parts: a prejudged program and a performance component. Participants are required to complete both parts. The program must address the topic given. Performances should describe the program completed. Specifically, the performance should address the program creation, processes used, and results of the program.

2009 NATIONAL LEADERSHIP TOPIC

The 2009 National Leadership Conference program is:

Create a web application that will allow people to RSVP for a planned dinner event. This should include a web form which will allow people to either choose to attend the function or decline the invitation.

Two files or tables should be included on a web server, one table/file will track first name, last name, mailing address, email address, phone numbers and whether or not they will be attending. The second table/file will track via a foreign key from the first table/file the total number attending in each party and the breakdown of the dinner meal selection (There should be at least 3 choices each for the entrée and the dessert) for the group. The number of entrées and/or desserts should not be larger than the number in the party. Include validation to insure duplicate entries are not made in the attending list.

Create a second interface that will allow the event management to summarize the names of those parties attending with their indicated number of attendees as well as the other information requested(address, email, phone numbers, dinner meal selection). Include in the summary a total of all attendees. This should be output in a formatted list.

Additionally, allow the generation of a formatted list of the names, emails, and phone numbers of those not attending. If database tables are used for the application, include table layout information along with the scripts created for the rest of the application.

Sample of data in table/file 1 (goes across on one line).

Key	FirstName	LastName	MailingAddress	City	State	Zip
1	John	Smith	112 Main St.	Home	VA	20107
2	Jane	Doe	987 Elm Drive	Town	FL	32006

3	John	Smith	456 Oak Avenue	Orange	IA	50836
EmailAddress	WorkPhone	HomePhone	CellPhone	NumAttending		
s@b.com	999 999 9999	888 888 8888	777 777 7777	0*		
r@o.cdu	789 789 7878	456 456 4545	123 123 1212	3		
t@b.org	321 321 9510	654 654 7530	987 987 8529	1		

**Value of 0 in NumAttending means not attending*

Sample of data in table/file 2.

Key	KeyFrom1	Entrée 1	Entrée 2	Entrée 3	Dessert 1	Dessert 2	Dessert 3
1	2	1	2	0	1	1	1
2	3	0	0	1	0	1	0

PROGRAM GUIDELINES

Prejudged Program

- Two (2) CD/DVDs containing the items listed in the next bullet must be received by the State Office for judging by the SBLC registration deadline of March 10 along with a Statement of Assurance. The CD/DVDs must be labeled with the name of the event, state, name of participant, school, and year (200x-200x).
- The CD/DVD should include the URL of the start page for the application, a listing of the source code in a text file, file/table layouts in a text file, and a listing of the data files/tables in a text file. On any fields that do not have a specified length (student ID), list the field length. On fields that allow you to create your own field convention (Adviser ID, Curriculum ID, Class ID, and Semester Code), list the field length along with the reasoning behind the field convention being used, include examples and data validation that should be done. To ensure accurate comparisons, the data files/tables should be backed up/copied prior to creating the CD/DVD. Once the project has been judged at the state level, the data files/tables should be recovered/copied back for judging at the national level. This will guarantee that the data files/tables are the same for national judging.
- The URL must be available for viewing on the Internet at the time of judging. No changes may be made to the Web site after the official entry (March 10). Judging of the program will take place before the SBLC.
- The solution must run with no programming errors and entries will be judged according to the rating sheet.
- Points will be deducted for any logical errors.
- Programs must be accompanied by a readme file noting software used; name(s) of participant(s), school; source of information; and instructions on running the program.
- Program should run on Internet Explorer 6.0 or higher. Other browsers may also be used for grading.
- CD/DVDs should be free of viruses/malware.
- The program will constitute 70 percent of the final score.

PERFORMANCE GUIDELINES

- Based on the highest prejudged project scores, a maximum of fifteen (15) individuals will be selected to make an oral presentation at SBLC.
- The individual has seven (7) minutes to present the case describing the program. The judges will interact with the participant during the presentation.
- A timekeeper will stand at six (6) minutes. When each participant is finished, the time used will be recorded.
- Participant is responsible for bringing a copy of the program.
- Competitors must provide their own computers and projection device for the oral presentation. A screen will be provided for the presentation with an Internet connection. Use of a USB drive is allowed on the equipment provided.
- Performances are open to conference attendees, except performing participants of this event.

JUDGING

Speeches will be evaluated by a panel of judges. All decisions of the judges are final.

STATE AWARDS

The judges will determine the number of awards presented at the State Business Leadership Conference. The maximum number will be five (5).

NATIONAL ENTRIES

Washington State may enter two (2) winners in this event for national competition.



INTERNET APPLICATION PROGRAMMING

Performance Rating Sheet

Evaluation Item	Not Demonstrated	Does Not Meet Expectations	Meets Expectations	Exceeds Expectations	Points Earned
Explanation of Project					
Description of the problem	0	1-2	3-4	5	
Description of the planning process used to design the program	0	1-3	4-7	8-10	
Description of program documentation	0	1-3	4-7	8-10	
Description of input/output and program parameters	0	1-5	6-10	11-15	
Description of how the program flows	0	1-7	8-14	15-20	
Description of program structures	0	1-5	6-10	11-15	
Description of the usefulness of the program	0	1-2	3-4	5	
Delivery					
Organization of oral presentation	0	1-2	3-4	5	
Oral presentation delivery, including voice and self-confidence	0	1-2	3-4	5	
Demonstration of ability to effectively answer questions	0	1-3	4-7	8-10	
Subtotal					/100 max.
Dress Code Penalty Deduct five (5) points when dress code is not followed.					
Total Performance Points					_____ x 30% =
Program Points					_____ x 70% =
Final Score					/135 max.

Student Name(s): _____

School: _____ State: _____

Judge's Signature: _____ Date: _____

Judge's Comments:

VERIFICATION
(scores checked)
 Administrator



INTERNET APPLICATION PROGRAMMING

Production Rating Sheet

Evaluation Item	Not Demonstrated	Does Not Meet Expectations	Meets Expectations	Exceeds Expectations	Points Earned
Page Layout and Design					
Fonts, colors, and graphics enhance aesthetic appeal	0	1-3	4-7	8-10	
Site uses innovative technology tools and enhancements effectively	0	1-5	6-10	11-15	
Content					
Effectiveness of site	0	1-3	4-7	8-10	
Solution adequately addresses assigned topic	0	1-5	6-10	11-15	
Application Design					
Form fields are validated	0	1-5	6-10	11-15	
Application optimized for speed	0	1-3	4-7	8-10	
Transaction data is appropriately prepared for assigned topic	0	1-3	4-7	8-10	
Results					
Program was error free	0	1-3	4-7	8-10	
The program handled user and/or data input errors well	0	1-5	6-10	11-15	
Program functioned as required and meets requirements	0	1-7	8-14	15-20	
Resulting outputs, screens, and messages were useful and correct	0	1-7	8-14	15-20	
Subtotal					/150 max.
Penalty Points Deduct five (5) points for not adhering to Guidelines.					
<input type="checkbox"/> 2 copies of media not received <input type="checkbox"/> Statement of Assurance not received <input type="checkbox"/> media labeled incorrectly _____					
Total Points					/150 max.

Student Name(s): _____

School: _____ State: _____

Judge's Signature: _____ Date: _____

Judge's Comments:

VERIFICATION
(scores checked)
 Administrator