

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.

Competencies

The program must address the topic and is appropriate for the audience. Showing creativity and cohesiveness of design through graphics, text treatment, and special effects are extremely important. The event should assist FBLA members with selecting appropriate fonts and type sizes while choosing an overall layout and design that is creative and appealing. FBLA members will produce a final product that indicates a clear thought process and an intended, planned direction with formulation and execution of a firm idea. Information should be effectively communicated in addition to following copyright laws. The performance should demonstrate an understanding of a program language and explain the tips, techniques, and tools that were used. Furthermore, an explanation should be given of the program to indicate that it was logically and systematically developed. The performance should demonstrate good diction along with efficient voice quality that shows self-confidence apparent through knowledge of the content and articulation of data.

Career Cluster(s):

Business, Management, and Administration; Information Technology

Business Education Curriculum Standard(s):

Information Technology, Management

State Eligibility

Each local chapter may enter two (2) programs. Only one member may create the program. The local chapter must be on record in the Pennsylvania state and the FBLA-PBL national offices as having paid dues by January 31 of the current school year. **Members participating in this event may not compete in another competitive event at a Region Leadership Conference.**

This event consists of two (2) parts: a prejudged program and a performance component. Participant(s) are required to complete both parts. The top 10 rated reports from among those submitted will be required to give an oral presentation at the SLC.

At the State Leadership Conference, the chapter adviser must confirm students' participation in the event. Participants who are not confirmed will be disqualified.

State Regulations

Prejudged Program

1. The program must address the topic given.
2. A Statement of Assurance must be included.
3. Entries will be judged according to the rating sheet.
4. Four (4) CD/DVDs containing the items listed in the next numbered item must be received by the date specified on the PA FBLA DATES TO REMEMBER document. The CD/DVD must be labeled with the name of the event, state, name of participant, and school.
5. 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, list the field length. On fields that allow you to create your own field convention, 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.

6. The URL must be available for viewing on the Internet at the time of judging. No changes can be made to the Web site after the official entry is submitted. Judging of the programs will take place before the SLC.
7. The solution must run with no programming errors and entries will be judged according to the rating sheet.
8. Points will be deducted for any logical errors.
9. Programs must be accompanied by a readme file noting software used; name(s) of participants, school, and the state; source of information; and instructions on running the program.
10. Program should run on Internet Explorer 6.0 or higher. Other browsers may also be used for grading.
11. CD/DVDs should be free of viruses/malware.
12. The program will constitute 70 percent of the final score.

State Procedure

Preconference Requirements

1. The participant(s) must submit the following items:
 - a. An event entry form, which is posted on the PA FBLA web site, certified by the local chapter adviser.
 - b. Four (4) copies of the prejudged program.
2. **The materials must be received by the PA FBLA Executive Director/State Chairman by the deadline date published on the PA FBLA DATES TO REMEMBER document, which is posted on the PA FBLA web site. Failure to submit these documents by the received by date will result in the participants being disqualified.**

Conference Requirements

Oral Presentation

1. Performances should describe the program completely. Specifically, the performance should address the program creation, processes used, and results of the program.
2. The top ten (10) individuals will be scheduled for a final presentation at the SLC.
3. A Windows-based computer, projection device, and screen will be provided for the presentation with an Internet connection. Use of a USB drive is allowed on the equipment provided.
4. The judges will interact with the participant during the presentation.
5. The participant is responsible for bringing a copy of the program. .
6. A timekeeper will stand at the end of six (6) minutes. When the presentation is finished, the timekeeper will record the time used, noting a deduction of five (5) points for any time over seven (7) minutes.
7. Performances are open to conference members.
8. The presentation will constitute 30 percent of the final score.

9. **The participants must comply with the PA FBLA Dress Code printed on pages 75-76 of these guidelines. If the participants do not comply, the participants will not be admitted to the performance area until he or she is in compliance.**

State Judging

Reports will be screened to determine if chapters have complied with event eligibility and regulations. A panel of judges will then select the winners, and all decisions of the judges are final.

If there is a tie after the pre-judged program portion and the oral presentation portion of the event, ties will be broken based on the following:

First Tiebreaker

- Total points of the *Pre-judged Program rating sheet*.

Second Tiebreaker

- Total points of the *Program Structure and Content* section on the rating sheet.

Third Tiebreaker

- Total points of the *Results* section on the rating sheet.

Tiebreaker implementation examples are found starting on pages 341-343 of this handbook.

State Awards

The state will present a maximum of ten (10) awards at the State Leadership Conference.

National Conference Eligibility

The first- and second-place award winning projects at the State Leadership Conference are eligible for entry at the National Leadership Conference. All NLC qualifiers will be expected to present a seven-minute (7) oral presentation of the project at the NLC. Advisers and participants should refer to the latest edition of the National Chapter Management Handbook for official National Leadership Conference event guidelines.

In the event that the local chapter of the first- or second-place winning project cannot attend the National Leadership Conference or does not wish to have its project submitted for competition at the National Leadership Conference, it is the responsibility of the:

local chapter adviser

- to contact the PA FBLA Executive Director/State Chairman about not participating at the National Leadership Conference.

PA FBLA Executive Director/State Chairman

- to contact the next eligible award winner about participating at the National Leadership Conference.

Internet Application Design Programming Program Rating Sheet

Evaluation Item	Not Demonstrated	Does Not Meet Expectations	Meets Expectations	Exceeds Expectations	Points Earned
Program Readability and Style					
Appropriate names of variable, method, and class names used	0	1 – 2	3 – 4	5	
Commentary provided line-by-line and/or section is readable, useful, and complete	0	1 – 5	6 – 10	11 – 15	
General program documentation readable, useful, and complete	0	1 – 7	8 – 14	15 – 20	
Input/output and program parameters properly documents	0	1 – 2	3 – 4	5	
Readme file	0	1 – 2	3 – 4	5	
Program Structure and Content					
Program is concise, does not contain unnecessary complexity	0	1 – 2	3 – 4	5	
Appropriate data types used	0	1 – 2	3 – 4	5	
Algorithms reliable and straightforward (unusual approaches that should be well documented)	0	1 – 5	6 – 10	11 – 15	
Algorithms did not impose any special limitations not described in the program instructions	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	0	1 – 7	8 – 14	15 – 20	
Subtotal	/150 max.				
Penalty Points					
Deduct five (5) points each for not adhering to Guidelines (maximum of twenty [15] points):					
<input type="checkbox"/> media labeled incorrectly <input type="checkbox"/> Statement of Assurance not received <input type="checkbox"/> 4 copies of program not received					
Total Points	/150 max.				

School: _____ Region: _____

Judge's Signature: _____ Date: _____

Judge's Comments:

VERIFICATION & INITIALS (scores checked for accuracy) <input type="checkbox"/> Co-Competitive Events Coordinator _____

Internet Application Design Programming

Oral Presentation 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 the oral presentation	0	1 – 5	6 – 10	11 – 15	
Oral presentation delivery, including voice, and self-confidence	0	1 – 3	4 – 7	8 – 10	
Demonstration of ability to effectively answer questions	0	1 – 3	4 – 7	8 – 10	
Subtotal				/100 max.	
Time Penalty: Deduct five (5) points for presentations over seven (7) minutes Time: _____					
Dress Code Penalty: Deduct up to five (5) points at the judge's discretion					
Oral Presentation Score Calculation		30% x _____ oral presentation score = _____			
Program Score Calculation		70% x _____ pre-judged program score = _____			
Final Score (add Oral Presentation Score and Program Score Calculations)				/135 max.	

Names: _____

School: _____ Region: _____

Judge's Signature: _____ Date: _____

Judge's Comments:

VERIFICATION & INITIALS
(scores checked for accuracy)

 Chief Administrator _____

 Official Checker _____