Alice480 Web Application

User Manual

©2013 Mercer University

Overview

The Alice480 Web Application is designed to be used to host programming competitions online for students to learn how to use the Alice programming language. The web application would have primarily three type of users; administrators (contest creators), sponsors (teachers) and participants (students). The default administrator can create, grade, manage contests, approve teacher accounts, delete a user and give permissions to user accounts. Sponsor account can be registered on the website pending approval from the administrator. Once a sponsor is approved they are given a sponsor code that students can use to register. Students would be able to register for contests by inputting a sponsor code during registration.Students would be able to view the contest problems and rubric, save drafts, submit work.

This manual is intended to be used by anyone who wishes to host programming contests using the Alice480 web application. The chapters are summarized as follows:

* Chapter 1, “Introduction,” provides an overview of the web applicationdiscusses the major features and introduces the homepage. Also, minimum system requirements are discussed.
* Chapter 2, “Creating a Contest” gives details about how an admin can create a contest
* Chapter 3, “Administrative Access”, covers how the admin screens and all the functionality associated with the administrator pages.
* Chapter 4, “User Registration”, discusses thescreens used for user registration.
* Chapter 5, “Team Interface”, covers the screens that participants in the programming competition use
* Chapter 6, “Grading Contests”, covers the screens that participants in the programming competition use

Table Of Contents

[Overview i](#_Toc371139530)

[Table Of Contents ii](#_Toc371139531)

[Chapter 1 1](#_Toc371139533)

[Introduction 1](#_Toc371139534)

[Chapter 2 2](#_Toc371139535)

[Creating Contest 2](#_Toc371139536)

[Chapter 3 3](#_Toc371139537)

[Administrative Access 3](#_Toc371139538)

[Chapter 4 5](#_Toc371139539)

[User Registration 5](#_Toc371139540)

[Chapter 5 6](#_Toc371139541)

[Team Interface 6](#_Toc371139542)

[Chapter 6 7](#_Toc371139543)

[Grading Contests 7](#_Toc371139544)

Chapter 1

Introduction

The Alice480 Web Application is intended to be used to host programming competitions online. The main features of the web application include:

* The admin and approved users can create their own contests
* Efficient structure of webpages to allow for easy navigation between pages on the site
* Customizable permission structure that is able to control what users can do on the site
* Allows for easy registration of users and management of contests
* Provides users the ability to use the site as a file server while allowing effective managed contest judging

There are no minimum client computer requirements to use this web application.

The URL to access the homepage of theAlice480 website is as follows:

<http://alice480.cs.mercer.edu/>

Chapter 2

Creating Contest

**Log In**

1. Go to alice480.mercer.edu in your web browser
2. Click the Log In button
3. Enter your user name and password

Any user who has permissions to create a contest would be able to log in and create a contest

**Create Contest -Stage 1**

1. Click the Create Contest Button on the page. The page would be redirected to the “Create Contest” page.
2. In the “Create Contest Page” , fill out all of the following input boxes:
   1. Content Title
   2. Contest Description
   3. Start Date
   4. End Date
   5. Maximum number of teams
   6. Minimum number of teams
   7. Number of Problems
   8. Maximum number of graded submissions
   9. Approved Check box
      1. Click the check box if this contest has been approved by the admin
3. Click the Submit button. The page would be redirected to the “Add Problems”

The user would be able to continue with the next steps only once approved by the admin

**Create Contest Stage 2**

1. Enter the Title and Description of each problem
2. Click the “Create/Update Rubric” link below the Problem Description input box to go to the Rubric creation page.
3. For each criteria number input the Max points available and the criteria description.
4. Click Submit at the bottom of the “Rubric Creation” page. The page would be redirected to the “Add Problems” page
5. When satisfied with Problems entries click the Submit button at the bottom of the page to finalize the contest

Chapter 3

Administrative Access

Note: The default administrator log in created is as follows:

UserID: admin

Password: admin

**Permission Groups Page**

**Access the Groups Permissions Page**

1. Go to alice480.mercer.edu in your web browser
2. Click the Log In button
3. Enter an admin user name and password
4. Click on the update groupsbutton on the admin homepage

**Add User to a Group**

1. In the add Section, Enter the UserID and select the “Group Name” for the user to be added to.
2. Click the “Add” Button

**Delete User to from a Group**

1. In the delete Section, Enter the UserID and select the “Group Name” for the user to be deletedto.
2. Click the “Delete” Button

Here are the default set user groups:

* Administrators
  + Administrators have all permissions.
* Sponsors
  + Sponsors are allowed to control their sponsers user accounts
* Participants
  + Participants are allowed to compete in contests
* Host
  + Hosts are allowed to create contests

**Approving Sponsors Page**

1. On the admin homepage click Approve “Sponsors button”
2. View the sponsor’s profiles by click on the sponsor’s names. A sponsor profile window would pop up.
3. In the approve Sponsors” page, check the check box besides the sponsors names you would like to approve.
4. Click submit to save all your changes

Chapter 4

User Registration

**Access Create Account Page**

1. Go to alice480.mercer.edu in your web browser
2. At the top right of the homepage, click the “create account” link the Log In button. The page would be redirected to the Registration Page

**Basic User Registration**

1. In the “Registration Page”, Fill in the input fields on the “Registration” page:
   1. UserID
   2. Email
   3. Password
   4. Confirm Password
   5. Sponsor Code
2. Click “Register” button

**Sponsor Registration**

1. In the “Registration Page”, fill out all the input fields listed below:
   1. Institution Name
   2. City
   3. State
   4. Phone number
   5. Cell Phone (Optional)
   6. Availability Combo Box(Morning, Afternoon, Evenings)
2. Click “Register” button

Note: Sponsors accounts need be approved by an administrator before they can become active. A red box with the text “PENDING” would appear at the top left of the screen until the account has been approved. Once the sponsor has been approved the sponsor would receive an email with a “Sponsor Code” that students can use to sign up for teams.

**Content Registration**

1. In the User homepage, click the “Join Contest”from the “My Contests” Section
2. Click Next
3. From the Select Team Combo box, select a team that you want to join
4. Click “Join” button to join the team

Chapter 5

Team Interface

**Log In**

1. Go to alice480.mercer.edu in your web browser
2. Click the Log In button
3. Enter an participant user name and password

**View Contest Information**

1. Click the contest that want to compete in
2. View the Contest Scoreboard by selecting the “Scoreboard” link at the top of the Contest Page.
3. View Contest Problems by clicking the “View Problem” button.
4. View the rubric for a problem by clicking the “Rubric” button.
5. To submit a solution to a problem click upload solution in the Problem Description Page.

**Submit Solutions**

1. Click the “View Problem” button.
2. In the “Problem” page, click “Upload Solution” button.
3. In the “Upload Solution” Windows Dialog box, select the file name of the solution to the problem.
4. Click “Upload” button in the dialog box to complete the upload of the problem.

**Save Drafts**

1. Click the “View Problem” button.
2. In the “Problem” page, click “Save Solution” button.
3. In the “Save Solution” Windows Dialog box, select the file name of the solution to the problem.
4. Click “Save” button in the“Save Solution” dialog box to complete the upload of the problem.

**Download Drafts**

1. Click the “View Problem” button.
2. In the “Problem” page, click “Download Draft” button.
3. In the “DownloadDraft” Windows Dialog box. The file would download to your download directory of your browser

**View Feedback**

1. In the Contest page click the “Rubric” button
2. The feedback would be displayed in the “Comments” column for each criteria in the rubric

Chapter 6

Grading Contests

**Log In**

1. Go to alice480.mercer.edu in your web browser.
2. Click the Log In button.
3. Enter a user name and password log in.

**Grade Contests**

1. From the homepage, click the name of the contest to be graded from the Current Contests table.
2. In the Contests page click the “Grade contests” button.

Note: If you do not have permission to grade the selected contest the “Grade Contest” button would not appear on the contest page

1. Clicking on the Team Name that you want to grade
2. Click on Problem to grade
3. Enter points for each criteria of the problems and include feedback in the feedback input box (optional)
4. Click the “Grade” button to grade the problem
5. Repeat from Step 7 until all problems have been graded