# 2016-2017 Dev Catalyst Competition Categories & Guidelines

**Novice Web Development** (for 1st year coding students)

1. create a **5-page website** (one homepage and 5 content pages**)** which includes the following:
    - Minimum requirement for programming languages are HTML and CSS
    - README file
        - Intro to design: color, font, background and explain the thought process or psychology for your design decisions in your README file
    - Responsive
    - Media to include photos
    - Students may work in teams of 2 or 3 students to create their website
    - Students should NOT use themes or templates for your websites. We need to see that you are able to code the site.
2. Website must be uploaded to GitHub
3. Website was created for a client, such as a local business, nonprofit organization, or school organization/team/club.
4. Online **interview** via SparkHire
5. **Teacher recommendation**
    - Teachers will provide each student with a "grade" of A-F
    - This grade should be determined based on the student's coursework, number of Treehouse badges, work ethic, and general attitude

**Advanced Web Development** (for students who are in a 2nd level coding course)

1. create a **7-page website** (one homepage and 7 content pages) which includes the following:
    - Minimum requirements for programming languages are HTML, CSS, PHP and JavaScript
    - README file

        i. Advanced design: color, font, background, pics & videos are responsive, logo creation and explain the thought process or psychology for your design decisions in your README file
    - Responsive
    - Media to include photos and video
    - Includes a user form
    - Students may work in teams of 2-3 students to create their website
2. Website must be uploaded to GitHub
3. Website was created for a client, such as a local business, nonprofit organization, or school organization/team/club.
4. Submit the **wireframe** used to create your website (scan/photo of the wireframe sketch OR a digital wireframe)
5. Each team will provide a **screencast** to demo their website where each team member will describe their role on the project
    - Screencasts should be less than 5 minutes
6. Each student will submit a **digital portfolio**
    - Minimal requirements include an "About Me" section, selected works such as websites or apps you have created, a link to your code repository (Example:GitHub) and resume
    - Optional items to include: a writing sample (Example: essay or research paper) and link to your LinkedIn profile
    - Sample digital portfolio: http://sodiumhalogen.com/clients/devcat/

**App Development** (for students who are in a 2nd or 3rd level coding course)

1. iOS development of the **app** should be in Swift or Android
2. App should be interactive
3. Students must work in teams of 2 or 3 students to create their app
4. App will be uploaded to GitHub
5. Each team will provide a **screencast** to demo their app where each team member will describe their role on the project
    a. Screencasts should be less than 5 minutes
6. Each student will submit a **digital portfolio** built
    a. Minimal requirements include an "About Me" section, selected works such as websites or apps you have created, a link to your code repository (Example:GitHub) and resume
    b. Optional items to include: a writing sample (Example: essay or research paper) and link to your LinkedIn profile
    c. Sample digital portfolio: http://sodiumhalogen.com/clients/devcat/

**Raspberry Pi Project** (up to 4 entries per school per semester)

1. Each school can request one raspberry pi (a credit-card sized computer) to be provided free of charge by theCO.
2. Students will then use this technology to create a school coding/technology project.
3. Participates do NOT need to be enrolled in a coding class to participate. This may be a great project for your math/science club or another STEM course.
4. Each school will submit a **video** of their raspberry pi project which includes the following:
    a. Explain the problem your project addresses / solves
    b. Describe your design process
    c. Demonstrate your raspberry pi project in action

**Coding Certification** (for students who are in a 3rd or 4th level coding course)

1. Students must apply for the Treehouse Techdegree program through theCO
    a. Additional expenses will be covered by theCO ($199/mth)
2. Program completion will take 6-9 months
3. Over the course of this program, students will complete 12 projects which will showcase a range of skills and can be added to your digital portfolio
4. Students must pass a proctored final exam for Techdegree completion
    a. You will have 2 hours to complete the final exam, but set aside around 2.5 hours to allow for setup and instructions from the proctor right before the exam. The exam is timed and composed of quiz questions and coding challenges. After the exam, you will receive a grade within 48 hours. If you passed, you will have finished the Techdegree and will receive a certificate. If you do not pass, you'll be able to schedule another exam a week later, giving you time to study and prepare to retake the exam.

**Additional Information**

**Schools will need to determine which competition category they wish to place all of their 2nd year students, either Advanced Web Development OR App Development.** This decision is based on the course and its course standards your school will be using. You may NOT split your 2nd year students between these 2 different competition categories.

Students may compete in two different categories if they are enrolled in two different coding courses (1 credit per class) within the same school year. For example, "Steve" is enrolled in Web Development I during the Fall semester and competes in the Novice Web Development category. Then "Steve" enrolls in Programming and Logic I for the Spring semester and competes in the Advanced Web Development category.

**Dev Catalyst Important Dates**

Raspberry Pi Project deadline for the Fall semester: Tuesday, October 11, 2016

Fall Semester Participant Website and App Project Deadline: Friday, December 9, 2016

Raspberry Pi Project deadline for the Spring semester: Tuesday, April 4, 2017

Full Year & Spring Semester Participant Website and App Project Deadline: Friday, April 7, 2017