COMPUTING in CONTEXT
PROBLEM: INTEREST & ACCESS

Confidence
Intuition
Influence
Expression

in COMPUTING
TRADITIONAL APPROACH
to learn programming for the web

1. IDE etc.
2. HTML
3. HTML CSS
4. HTML CSS JS
5. HTML CSS JS DB
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COMPUTING in CONTEXT

approach

REAL PROBLEMS → REAL SOLUTIONS
COMPUTING *in* CONTEXT

**PROBLEM:**
Lack of experience and knowledge in finances for teenagers.
PROBLEM: Residents in need of quality food while food waste occurs at local businesses.
PROBLEM: Sedentary lifestyles encouraged by popularity of video games and TV.
COMPUTING in CONTEXT

approach

1
2
3
4
5

HTML
CSS
JS
DB
Define Problem, Research Stakeholders + Tech
Dale Garcia
"The Greatest Generation"

Background
- 86
- Retired
- Veteran of the US Army
- Enjoy golfing and spending time with grandchildren

Dale is an 86-year-old retired veteran living in Columbus, Ohio. He is spending his retirement hitting golf balls during the week and being with his grandchildren on weekends.

Goals
- Spend time with his grandchildren
- Enjoy his retirement
- Get his golf score under 70

Frustrations
- Thought of losing independence
- Right side

Scenario
Dale is a retired veteran living alone by himself. He is still a very active individual, managing to get a few rounds of golf in per week. His family has been worried about him living by himself, but understands he doesn’t want to leave his home.

Dale subscribed to the Life Fit system, which not only allows him to track his heart rate while out walking or playing golf, but also provides him with the Life Alert system. In the event of an emergency, he will be instantly connected to mediics with his location. This provides comfort for the family and provides the benefits of tracking his everyday activity.

1. Installing iHealth Vital’s Application
   1.1. Go to Appstore, select iHealth Vital
   1.2. Download App
   1.3. Follow instructions to register
   1.4. Create profile
   1.5. Connect monitor to Bluetooth

   1.3.1. Enter email and password
   1.4.1. Enter first and last name, select gender
   1.5.1. Go to settings and turn on Bluetooth

   1.4.2. Enter height, weight and birthdate
   1.5.2. Pair monitor device to connect
Design Concepts + Prototype
Code Development
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>My II01 Portfolio (Project 3)</title>
    <link href="bootstrap/css/bootstrap.min.css" rel="stylesheet">
    <link href="css/custom-style.css" rel="stylesheet">
    <script src="jquery/jquery-1.11.1.js"></script>
    <script src="bootstrap/js/bootstrap.min.js"></script>

    <script>
        $(document).ready(function() {
            $('#addItem').click(function() {
                $('#todoslist').append('<li class="col-lg-12 list-group-item">' + $('#todoItem').val() + '</li> ');
                $('#todoItem').val('');
            } );
        });
    </script>
</head>

<body>
    <div id="header">
        <nav class="navbar navbar-inverse navbar-fixed-top role="navigation">
            <div class="container">
                <div class="navbar-header">
                    <button type="button" class="navbar-toggle collapsed" data-toggle="collapse" data-target="#navbars" aria-expanded="false" aria-controls="navbars">
                        <span class="sr-only">Toggle navigation</span>
                        <span class="icon-bar"></span>
                        <span class="icon-bar"></span>
                        <span class="icon-bar"></span>
                    </button>
                </div>
            </div>
        </nav>
    </div>
</body>
</html>
Refine and Launch
Analyze, Reflect, and Present
Results

- Interviewed ten people
  - Ages 25-57
  - Equal male to female ratio
- Three of the four tasks were accomplished with relative ease
- Major issue with task of finding charging station the tester uses everyday for work
  - Wanted to use the charging icon, instead of the intended favorites icon
- Most of the participants liked the interface
  - Noted familiarity with iPhone layout
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course development
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