FNB App Academy Week 3

1 message

Team IT varsity <appacademy@itvarsity.org>   Mon, May 19, 2025 at 2:02 PM
Reply-To: Team IT varsity <appacademy@itvarsity.org>
To: thegearsh@gmail.com

Hi,

Welcome to Week 3 of the FNB App Academy!

By now, you've explored the foundations of app development with HTML and CSS—and even built your first app. That's a big milestone, so well done! But there's still a lot more power to unlock in these two tools.

In last Friday's live lecture, we walked through the Software Development Life Cycle, using our case study app, Pine City Zoo, to explore how developers go from an idea to a full-fledged app. It's all about planning, designing, and thinking ahead—just like a real dev team would.

Now it's your turn.

This week, you'll be building your own version of the Pine City Zoo app. Some parts of it will challenge you, and that's a good thing. Take your time, revisit the lessons as often as needed, and don't rush. You're not just coding—you're developing real-world skills.

Make sure to complete all of this weeks lessons before next weeks lessons are sent out in order to avoid falling behind.

Coming Up Tomorrow: UX/UI Design

In Tuesday's session, we'll dive into User Experience (UX) and User Interface (UI) design.

UI is what your users see—the layout, buttons, and navigation. UX is what they feel—how intuitive, smooth, or frustrating that experience is. A well-designed app isn't just good-looking; it guides users naturally and helps them get what they need, effortlessly.

You'll learn how to spot bad UX, what makes great UX, and how to design a UI that's simple, functional, and beautiful. We'll continue using the Pine City Zoo app to show real-world examples inaction.

Tomorrow's session **starts at 11:00.** Tune in on the App of the Year Site or YouTube channel.

Tune in on the App of the Year site

Tune in on YouTube

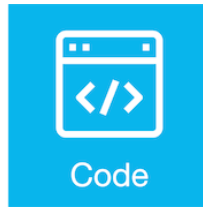Recordings of these sessions will be made available on these platforms as well.

WEEK 3
Beginner Level

Start Course

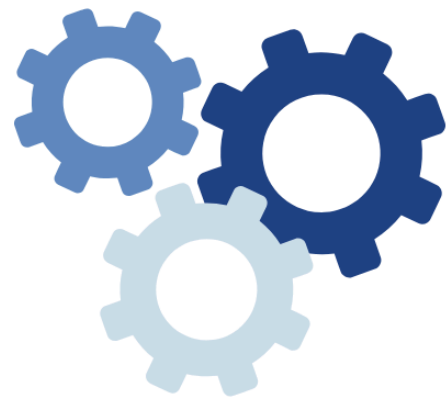# Tips to make the most of this lesson

1. Watch all the videos once

2. Watch them a second time

3. In the second time, follow as you learn

Learn

Code

Excel!

SECTION 1

SETTING UP

In the next few lessons, we will be learning how to build the "Pine City Zoo" App. It serves as tour guide for a fictional zoo.

Lesson 1

Setting up the Development Environment

Before we can start building our app we need to set up the environment for development, just like we did before.

We will start by creating a folder called **Pine City Zoo.** You can create this folder inside your **Documents/Websites** folder.

Next, make an images folder inside the **Pine City Zoo** folder.

Lesson 2

Making the Home Page

In this lesson we will code our App's Home Page.

As you will see, there is very little HTML involved!

Download the Images

Code:

```html
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="style.css">
</head>
<body>
<div id="header">
<img src="images/logo.png"/>
</div>
<div id="tabs-top">
<a href="#">ANIMALS</a>
<a href="#">MAP</a>
<a href="#">PLACES</a>
</div>
<div id="main-home">
<img src="images/map.png" width="100">
</div>
<div id="tabs-bottom">
<a href="#">WEATHER</a>
<a href="#">FEEDBACK</a>
</div>
</body>
</html>
```

Lesson 3

Styling the Header Section

In this lesson we are going to style the Header section of our page. The styling we add here will apply to the Home page as well as all the other pages in our app.

Code:

```
body{
padding    : 0;
margin     : 0;
font-family: Helvetica;
}
#header{
position: fixed;
top      : 0;
left     : 0;
z-index : 500;
width   :100%;
height  :80px;
background-image  : url('images/wood-bg.png');
background-repeat: repeat-x;
}
#header img{
display: block;
margin : auto;
height : 70%;
padding-top: 15px;
}
```


Lesson 4

Home Page Styles - Top Tabs

In the previous lesson we styled our headers. Now we are going to style the Top Tabs.

Code:

```
#tabs-top{
position: fixed;
top     : 80px;
left    : 0;
z-index : 500;
width   : 100%;
height  : 40px;
background-color: darkgreen;
}
#tabs-top a{
float   : left;
display : block;
width   : 33%;
height  :35px;
font-weight : 700;
color       : white;
text-align  : center;
text-decoration : none;
padding-top     : 12px;
}
```


Lesson 5

Home Page Styles - Main Home

In this lesson we are going to style the main section of our page.

Code:

```
#main-home{
margin-top: 120px;
}
```


Lesson 6

Home Page Styles - Bottom Tabs

The last thing we will style in our home page is the Footer Tabs area.

Code:

```
#tabs-bottom{
position : fixed;
bottom   : 0;
left     : 0;
z-index  : 500;
width    : 100%;
height   : 40px;
background-color: forestgreen;
}
#tabs-bottom a{
float : left;
display : block;
width : 50%;
height : 35px;
font-weight : 700;
color       : white;
text-align  : center;
text-decoration : none;
padding-top     : none;
}
```


SECTION 2

THE ANIMALS PAGE

Lesson 7

Animal Page HTML

Now we are going to make the Animals Page.

Code:

```html
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="style.css">
</head>
<body>
<div id="header">
<img src="images/logo.png"/>
</div>
<div id="tabs-top">
<a href="#">ANIMALS</a>
<a href="#">MAP</a>
<a href="#">PLACES</a>
</div>
<div id="main">
<div id="content">
<a class="info-box" href="#">
<img class="right" src="images/next-arrow.png"/>
<img src="images/elephant-tn".png/>
<h3>ELEPHANT</h3>
<p>Gentle giants of the jungle</p>
</a>
</div>
</div>
<div id="tabs-bottom">
<a href="#">WEATHER</a>
<a href="#">FEEDBACK</a>
</div>
</body>
</html>
```


Lesson 8

In this lesson we are going to add some styling to our Elephant's Link.

Code:

```
#main{
margin-top: 119px;
background: url('images/map-blur.png');
background-repeat: repeat-y;
}
#content{
padding-top: 1px;
padding-bottom: 50px;
}
```


Lesson 9

Animals Page Links Styling

In this lesson we are going to style the Animals Page Links.

Code:

```
a.info-box{
text-decoration : none;
background      : rgba(255 ,225, 55, .8);
width           : 90%;
height          : 90px;
display         : block;
margin          : auto;
margin-top      : 12px;
padding         : 1px;
}
```


Lesson 10

Animals Page Links Contents

In this lesson we are going to style the Animals Page Links Contents.

Code:

```
.info-box img{
height : 70px;
margin : 10px;
float  : left;
}
.info-box h3{
padding : 0;
margin-bottom :0;
width : 90%;
color : #572800;
}
.info-box p{
margin  : 0;
padding : 0;
width   : 90%;
color   : 131313;
}
.info-box img.right{
float      : right;
margin-top : 25px;
height     40px;
}
```


Lesson 11

Animal Page More Links

At this point we got our animals page and inside it we created a link to the elephants page, now we will add links for the remaining animals.

SECTION 3

MORE PAGES

Lesson 12

Download the Link Descriptions here:

In this lesson we are going to add the Elephant's Page.

Download the Animal Page Info

Code:

```
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="style.css">
</head>
<body>
<div id="header">
<img src="images/logo.png"/>
</div>
<div id="tabs-top">
<a href="#">ANIMALS</a>
<a href="#">MAP</a>
<a href="#">PLACES</a>
</div>
<div id="main">
<div id="content">
<div id="info-box-full">
<img src="images/elephant.jpg"/>
<h3>ELEPHANT</h3>
<p>Elephants are large mammals… </p>
<p>All elephants have several… </p>
<p>Elephants are herbivorous… </p>
<strong><p>WHERE WILL YOU FIND THEM</p></strong>
<p>You will find the elephants at pen E22, right next to the amphitheatre.</p>
</div>
</div>
</div>
<div id="tabs-bottom">
<a href="#">WEATHER</a>
<a href="#">FEEDBACK</a>
</div>
</body>
</html>
```

Lesson 13

Elephant Page CSS

In this lesson we are going to add some styling to our Elephant's Page.

Code:

```
#info-box-full{
background-color : rgba(255, 255, 255, .8) ;
width    : 90%;
display : block;
margin   : auto;
margin-top : 12px;
padding    : 10px;
}
#info-box-full img{
width : 100%;
}
#info-box-full h3{
text-align : center;
}
```

Lesson 14

Places Page

In this lesson we are going to add the Places Page.

Download the Places Link Descriptions

Code:

```
<a class="info-box" href="#">
<img class="right" src="images/next/arrow.png"/>
<img src="images/amphitheatre-tn.png"/>
<h3>AMPHITHEATRE</h3>
<p>Catch an educational and entertaining event</p>
</a>
```

Lesson 15

Fixing Menus

In this lesson we are going to fix our menus by making all our hyperlinks work properly.

We are going to change the hash character # in all the animals pages to the direct page.

Code:

```
<div id="tabs-top">
<a href="animals.html">ANIMALS</a>
<a href="index.html">MAP</a>
<a href="places.html">Places</a>
</div>
```


Lesson 16

Adding the Amphitheatre Page

In this lesson we will add the Amphitheatre Page.

Download the Places Link Descriptions

Code:

```
<div id="info-box-full">
<img src="images/garden-amphitheatre.jpg>
<h3>AMPHITHEATRE</h3>
<p>Learn and be entertained. Come and catch daily educational and entertaining shows,
demonstrations at the amphitheater club.</p>
<p>Today's program:</p>
<ul>
<li>9h00am   : A Bug's life - Play</li>
<li>11h00am  : Penny and her Penguins</li>
<li>14h00am  : Bigs cats of Africa - a Documentary</li>
</ul>
<p>WHERE WILL YOU FIND IT?</p>
<p>The amphitheatre is to the west of the main entrance.e</p>
</div>
```

Lesson 17

Weather Page

In this lesson we will add the Weather Page.

Code:

```
<a class="info-box-full">
<h3>PINE CITY WEATHER</h3>
<p><img class="info-box-weather-icon" src="images/partly-cloudy.png"/>
Partly Cloudy</p>
<p>&uarr; 25&deg &darr; 16&deg;</p>
<h1 class="info-box-weather-icon">22&deg;</h1>
<p><strong>FORECAST</strong></p>
<table>
</table>
</a>
```


Lesson 18

Weather Page Tables

In this lesson we are going to complete the Weather Page by completing the table.

Code:

```
<table>
<tr>
<td>Tuesday</td>
<td><img class="info-box-weather-icon" src"images/sunny.png"></td>
<td>&uarr;28</td>
<td>&darr;17</td>
</tr>
<tr>
<td>Wednesday</td>
<td><img class="info-box-weather-icon" src"images/partly-cloudy.png"></td>
<td>&uarr;28</td>
<td>&darr;15</td>
</tr>
<tr>
<td>Thursday</td>
<td><img class="info-box-weather-icon" src"images/rain.png"></td>
<td>&uarr;28</td>
<td>&darr;17</td>
</tr>
<tr>
<td>Friday</td>
<td><img class="info-box-weather-icon" src"images/sunny.png"></td>
<td>&uarr;29</td>
<td>&darr;15</td>
</tr>
<tr>
<td>Sartaday</td>
<td><img class="info-box-weather-icon" src"images/sunny.png"></td>
<td>&uarr;30</td>
<td>&darr;17</td>
</tr>
<tr>
<td>Sunday</td>
<td><img class="info-box-weather-icon" src"images/sunny.png"></td>
<td>&uarr;28</td>
<td>&darr;16</td>
</tr>
</table>
```

Lesson 19

Weather Page CSS

In this lesson we will be styling our Weather Page

Code:

```
img.info-box-weather-icon{
height : 30px;
width  : 30px;
margin : 10px;
float  :left;
}
h1.info-box-weather-icon{
font-size  : 65px;
font-weight: 200;
padding    : 0;
margin     : 0;
}
```

Lesson 20

Feedback Page

In this lesson we are going to make the Feedback Page.

Code:

```
<div id="info-box-full">
<img src="images/giraffe-large.jpg>
<h3>WE'D LOVE TO HERE FROM YOU</h3>
<p>We always strive to do best, so your feedback is very important to us.
Please fill in the form below</p>
<input type="text" placeholder="Your name" id="name">
<input type="text" placeholder="Your email" id="email">
<textarea placeholder="Type your message here"></textarea>
<a class="button" href="message-received.html">SUBMIT</a>
</div>
```


Lesson 21

Feedback Page CSS

In this lesson we are going to style our form in the Feedback Page.

Code:

```
input{
width: 100%;
height: 25px;
margin : 12px 0;
border : 1px solid #929292;
}
textarea{
width: 100%;
height :25px;
margin : 12px 0;
border : 1px solid #929292;
}
.button{
display : block;
background-color: forestgreen;
text-decoration : none;
text-align  : center;
color       : white;
font-size   : 16px;
font-weight : 600;
margin : 12px 0;
padding : 8px 0;
}
```

That's a wrap for this week. Until next week, keep embracing the power of technology!

If you have any questions or need assistance, please don't hesitate to reach out to our support team at **AppAcademy@itvarsity.org**

Happy learning.
IT varsity Team

What's Happening next in the world of tech 🌍 ?

Be sure to check out your inbox next week to find out.

✻IT varsity

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