Lab Development Kit (LDK) Tutorial
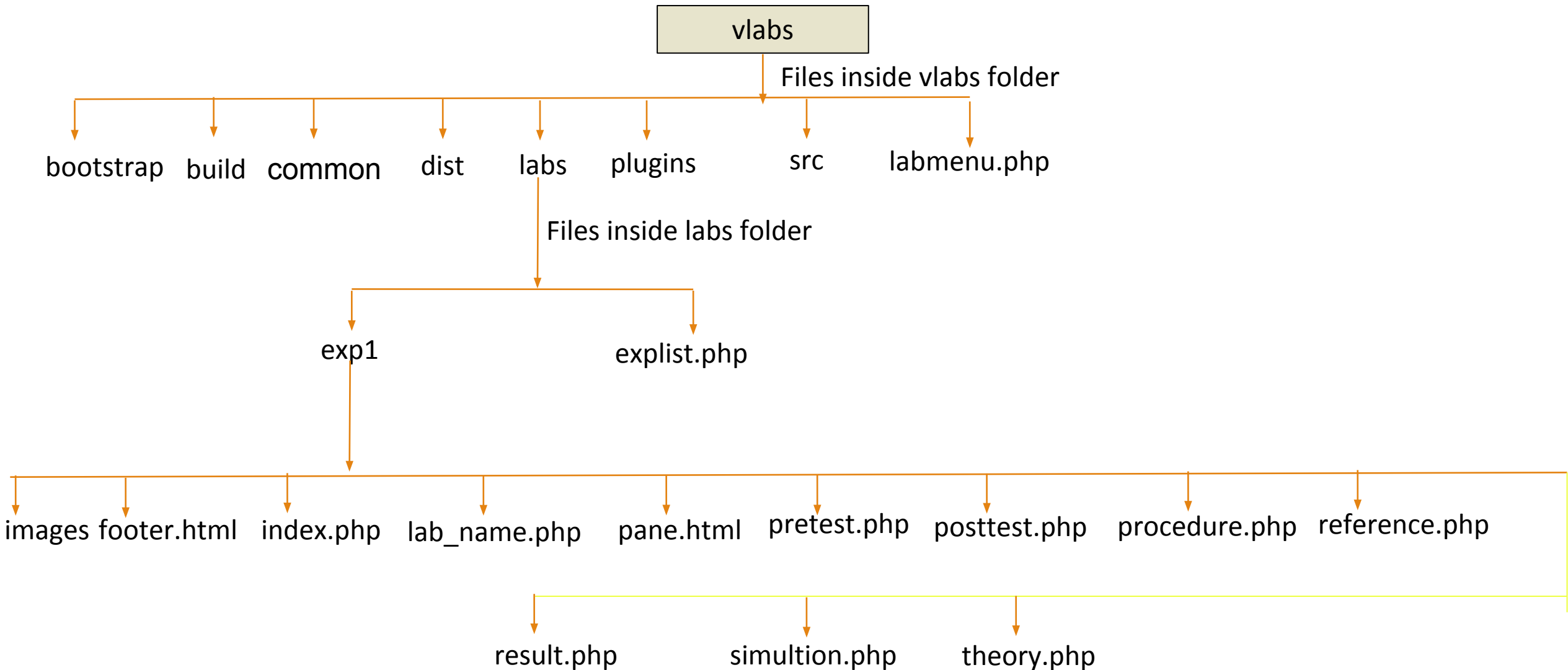
[Source](#)

Steps to edit the LDK template

LDK Template Structure

vlabs

Files inside vlabs folder

bootstrap build common dist labs plugins src labmenu.php

Files inside labs folder

exp1 explist.php

images footer.html index.php lab_name.php pane.html pretest.php posttest.php procedure.php reference.php

result.php simultion.php theory.php

Inside the Template Folders/Files

- **bootstrap** and **dist** folders contains css and js files.
- These files are called in every file inside **labs** and **exp1** folder.
- **labmenu.php** file contains lab name and its description.
- **explist.php** file contains list of experiments.
- **exp1** is an experiment folder which contains files related to experiment.

(Note: kindly edit only the following files/folders)
- **labmenu.php**
- **explist.php**
- **exp1**

Steps to edit the LDK template

❖ To edit the vlabs template
  ➢ Open vlabs folder. Inside it, there is a file named **labmenu.php** and a folder named **labs.**
  ➢ Open the **labmenu.php** file and type in your lab name, its description, institute logo and institute name as described in _figure below._

```php
    >
    <link href="labmenu.css" rel="stylesheet" type="text/css">
</head><body>
    <?php include 'header.html'; ?>
<div class="section section-primary">
    <div class="container">
        <div class="row">
            <div class="col-md-12">
                <div class="jumbotron">
                    <h1 class="text-primary"><!-- Lab Name --></h1>
                    <p class="text-primary"><!-- Description of Lab --></p>
                    <a class="btn btn-primary btn-large" href="numericalmethod.html">Explore</a>
                </div>
            </div>
        </div>
    </div>
</div>
<div class="section">
    <div class="container">
        <div class="row">
            <div class="col-md-12">
                <p contenteditable="true">
                    <br>
                </p>
                <center>
                    <img src="" alt="" height="90" width="75"> <!-- Your Institute Logo -->
                    <p></p>
                    <h3>This lab is contributed by <!-- Your Institute Name --> </h3>
                    <p></p>
                </center>
            </div>
        </div>
```

Write the Lab name and its description

Mention your institute logo and name

labmenu.php

Steps to edit the LDK template

❖

➢ Open the **explist.php** file inside **labs** folder and write your lab name.
➢ Enter the list of experiments.
➢ Copy the content from **\<li\>** tag to **\</li\>** tag and paste it number of times equal to number of experiment in your lab.
➢ Write the experiment names.
➢ Give a the relevant link to respective experiment folder in anchor (**a**) tag.
➢ Ex - \<a href=exp1/index.html\>
  \<a href=exp2/index.html\>

```
<script type="text/javascript" src="http://cdnjs.cloudflare.com/ajax/libs/jquery/2.0.3/jquery.min.js"></script>
<script type="text/javascript" src="http://netdna.bootstrapcdn.com/bootstrap/3.3.4/js/bootstrap.min.js"></script>
<link href="http://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.3.0/css/font-awesome.min.css" rel="stylesheet" type="text/css">
<link href="networklab.css" rel="stylesheet" type="text/css">
</head>
<body>
<?php include 'header.html'; ?>
<!--Edit Lab title here-->
<div class="section">
  <div class="container">
    <div class="row">
      <div class="col-md-12">
        <h1>Lab Name</h1>
      </div>
    </div>
  </div>
</div>
<!--edit experiment lists here-->
<div class="section text-left">
  <div class="container">
    <div class="row">
      <div class="col-md-8">
        <ul class="list-group">
          <h3>
            <li class="list-group-item">
              <a href="exp1/index.html">Expeiment Name</a>
            </li>
          </h3>
        </ul>
```

Write lab name

Enter the list of experiments. Copy the tag and paste it number of times equal to number of experiment and write experiment names. Give proper link to respective experiment folder

explist.php

Steps to edit the LDK template

❖

➢ Inside **exp1** folder, there are following files
  - lab_name.php
  - footer.html
  - index.php
  - theory.php
  - pretest.php
  - procedure.php
  - simulation.php
  - posttest.php
  - result.php
  - references.php

❖

➢ Open **lab_name.php** file, write the lab name and experiment name in inverted commas respectively.

```php
<?php
$lab_name = "<!-- Lab Name -->";

$exp_name = "<!-- Experiment Name -->";

$_SESSION['lab_name'] = $lab_name;
$_SESSION['exp_name'] = $exp_name;
?>
```

Lab name

Experiment name

lab_name.php

❖

➢ Open **footer.html** file, write the name of your institute name as mentioned in the figure.

```
<!-- /.content-wrapper -->
<footer class="main-footer">
    <h4 align="center">Lab contributed by <!-- Your Institute Name --></h4>
</footer>
<!-- /.control-sidebar -->
```

Institute name

footer.html

❖

➢ Open the following files (index.php, theory.php, pretest.php, procedure.php, simulation.php, posttest.php, result.php, references.php)

➢ and edit the contents inside the appropriate tag as shown in the figure.

```
<div class="content-wrapper">
<!-- Content Header (Page header) -->
    <section class="content-header">
    <h1 align="center">
        <?php echo $exp_name?>
    </h1>
    </section>
        <!-- Main content -->
        <section class="content">
        <h3 style="margin-top:5%"> Aim </h3>
        <p style="font-size:130%; margin-top:2%">

            <!-- Aim content goes here -->

        </p>
        </section>
<!-- /.content -->
</div>
```

Write the aim of experiment. Do the same for all the files

index.php, theory.php, pretest.php, procedure.php, simulation.php, posttest.php, results.php, references.php

For additional support

write back to **support@vlabs.co.in**