



3. Mobile App Development

3.4 PhoneGap

Prerequisites:

1. HTML
2. CSS
3. JavaScript
4. JS Framework (Optional)

Duration: 30 Lectures

Course Content:

1. Introduction

- 1.1. What PhoneGap is
- 1.2. Basic History of PhoneGap
- 1.3. Architecture
- 1.4. Native vs. Hybrid Development

2. Environment Setup

- 2.1. How MVC works?
- 2.2. Configuration CakePHP
- 2.3. Setting up CakePHP with apache Environment e.g. Enable mod_rewrite
- 2.4. Configuration CakePHP to work with database
- 2.5. Running Cake for the first time
- 2.6. Cake Convention: Naming convention for MVC and database tables

3. HTML, CSS & JavaScript

- 3.1. Fetching data
- 3.2. Saving and updating data
- 3.3. Deleting data



3.4. User defined function in model

3.5. Data Validation

4. Building App

4.1. Controller function

4.2. Interacting with model

4.3. Interacting with views

4.4. Controller variables and parameters

4.5. Redirection

4.6. Getting post data

5. PhoneGap Events

5.1. Working with configuration layout

5.2. Creating custom layout

5.3. Element and helpers

6. PhoneGap API

6.1. Storing data in cake session

6.2. Reading a session data

6.3. Delete data from session

7. Assignment & Project

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Device Information and Notification

- Getting information from device
- Notifications
- Alerts

Storage

- Database using SQLite
- How to uses SQLite web API
- Adding tables
- Insert data
- Querying data/read data
- Deleting table
- Updating data
- Basic Queries

Media and Files

- Basic File systems
- Directories Operation

Contacts

- Accessing device contacts
- Adding and editing contacts

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