

Phoenix Framework Cheat Sheet

1. Create a New Phoenix Project

```
mix phx.new task_master --no-live --no-html
```

2. Configure the Database

```
config :task_master,
  TaskMaster.Repo,
    use_rname: "postgres",
    password: "postgres",
    database: "task_master_dev",
    hostname: "localhost",
    pool_size: 10
```

Edit config/dev.exs

3. Generate Task Schema

```
mix phx.gen.schema Task tasks
title:string description:text
```

4. Migrate Database

```
mix ecto.migrate
```

5. Implement Task Context Functions

Create file lib/task_master/task.ex:

Define schema "tasks"
Add fields: title, description
Create changeset function
Implement CRUD functions: list, create, update, delete

6. Implement Task Controller Functions

Create file lib/task_master_web/controllers/task_controller.ex:

Use TaskMasterWeb, :controller
Alias TaskMaster.Task
Define controller actions: index, create, show, update, delete

7. Test the Application

Use Postman or curl to test API endpoints:

GET /tasks (list tasks)
POST /tasks (create task)
GET /tasks/:id (view task)
PUT /tasks/:id (update task)
DELETE /tasks/:id (delete task)



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