Flask Framework
Cookbook

Second Edition

Over 80 proven recipes and techniques for Python web development with Flask

Shalabh Aggarwal

Packt>

Flask Framework Cookbook

Alexander Aronowitz

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the help of sample apps Book Description Flask the lightweight Python web framework is popular thanks to its powerful modular design that lets you build scalable web apps With this recipe based guide you ll explore modern solutions and best practices for Flask web development Updated to the latest version of Flask and Python 3 this second edition of Flask Framework Cookbook moves away from some of the old and obsolete libraries and introduces new recipes on cutting edge technologies You ll discover different ways of using Flask to create deploy and manage microservices This Flask Python book starts by covering the different configurations that a Flask application can make use of and then helps you work with templates and learn about the ORM and view layers You ll also be able to write an admin interface and get to grips with debugging and logging errors Finally you ll learn a variety of deployment and post deployment techniques for platforms such as Apache Tornado and Heroku By the end of this book you ll have gained all the knowledge you need to confidently write Flask applications and scale them using standard industry practices What you will learn Explore web application development in Flask right from installation to post deployment stages Make use of advanced templating and data modeling techniques Discover effective debugging logging and error handling techniques in Flask Integrate Flask with different technologies such as Redis Sentry and MongoDB Deploy and package Flask applications with Docker and Kubernetes Design scalable microservice architecture using AWS Lambda continuous integration and continuous deployment Who this book is for If you are a web developer who wants to learn more about developing scalable and production ready applications in Flask this is the book for you You ll also find this book useful if you are already aware of Flask s major extensions and want to use them for better application development Basic Python programming experience along with basic understanding of Flask is assumed Downloading the example code for this ebook You can downloa   Mastering Flask Web Development Daniel Gaspar,Jack Stouffer,2018-10-31 Learn to build modern secure highly available web MVC applications and API s using Python s Flask framework Key FeaturesCreate production ready MVC and REST API with the dynamic features of FlaskUtilize the various extensions like Flask JWT and Flask SQLAlchemy to develop powerful applicationsDeploy your flask application on real world platforms like AWS and Heroku on VM s or Docker containersBook Description Flask is a popular Python framework known for its lightweight and modular design Mastering Flask Web Development will take you on a complete tour of the Flask environment and teach you how to build a production ready application You ll begin by learning about the installation of Flask and basic concepts such as MVC and accessing a database using an ORM You will learn how to structure your application so that it can scale to any size with the help of Flask Blueprints You ll then learn how to use Jinja2 templates with a high level of expertise You will also learn how to develop with SQL or NoSQL databases and how to develop REST APIs and JWT authentication Next you ll move on to build role based access security and authentication using LDAP OAuth OpenID and database Also learn how to create asynchronous tasks that can scale to any load using Celery and RabbitMQ or Redis You will also be introduced to a wide range of Flask extensions to leverage technologies such as cache localization and

debugging You will learn how to build your own Flask extensions how to write tests and how to get test coverage reports Finally you will learn how to deploy your application on Heroku and AWS using various technologies such as Docker CloudFormation and Elastic Beanstalk and will also learn how to develop Jenkins pipelines to build test and deploy applications What you will learnDevelop a Flask extension using best practicesImplement various authentication methods LDAP JWT Database OAuth and OpenIDLearn how to develop role based access security and become an expert on Jinja2 templatesBuild tests for your applications and APIsInstall and configure a distributed task queue using Celery and RabbitMQDevelop RESTful APIs and secure REST API sDeploy highly available applications that scale on Heroku and AWS using Docker or VMsWho this book is for The ideal target audience for this book would be Python developers who want to use Flask and its advanced features to create Enterprise grade and lightweight applications The book is for those who have some exposure of Flask and want to take it from introductory to master level **Python for Machine Learning** Jason Brownlee,Zhe Ming Chng,Daniel Chung,Stefania Cristina,Mehreen Saeed,Adrian Tam,2022-05-25 Using clear explanations and step by step tutorial lessons you will learn the underlying mechanics of the Python language the tools in its ecosystem tips and tricks and much more **Programming Raspberry Pi in 30 Days** Edgardo Peregrino,2023-02-28 A step by step guide that will help you build exciting projects using Raspberry Pi KEY FEATURES Get familiar with the specifications and features of different Raspberry Pi models Create embedded projects using the Raspberry Pi Learn how to build your projects using the Raspberry Pi Pico a low cost and high performance microcontroller board DESCRIPTION The Raspberry Pi is a powerful and versatile computing platform that has become a popular choice for DIY electronics projects hobbyist programming and educational purposes Whether you are new to the Raspberry Pi or a seasoned user this book provides a comprehensive coverage of the latest Raspberry Pi models software and accessories The book begins with a detailed overview of how to start and set up your Raspberry Pi It then introduces you to Raspberry Pi OS including a comparison of 32 bit vs 64 bit and the difference between Raspberry Pi OS Legacy Buster and Raspberry Pi OS Bullseye Moving on the book will help you get familiar with some basic Linux and Networking commands The book also explains how to build GUI applications web applications and robots using Raspberry Pi and Python With clear explanations practical examples and plenty of opportunities for hands on learning this book will help you unleash the full potential of your Raspberry Pi and bring your ideas to life WHAT YOU WILL LEARN Learn how to interact with the Raspberry Pi Pico for the first time Learn how to use GPIO ZERO on your Raspberry Pi Learn how to make GUI apps with Raspberry Pi and guizero Learn how to connect the Raspberry Pi Camera Module to your Raspberry Pi Learn how to build your first robot with Raspberry Pi with ease WHO THIS BOOK IS FOR This book is a perfect guide for anyone who wants to learn how to use and explore the capabilities of Raspberry Pi including hobbyists makers and DIY enthusiasts IoT engineers software developers and educators who want to integrate Raspberry Pi into their projects will find this book helpful TABLE OF CONTENTS 1 Introducing Raspberry Pi 2

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the Flask framework to build powerful web solutions in Python What You Will Learn Build three web applications from the ground up using the powerful Python micro framework Flask Extend your applications to build advanced functionality such as a user account control system using Flask Login Learn about web application security and defend against common attacks such as SQL injection and XSS Integrate with technologies like Redis Sentry MongoDB and so on Build applications with integrations to most of the login mechanisms available Don t just stop at development Learn about deployment and post deployment Use SQLAlchemy to programmatically query a database Develop a custom Flask extensionIn DetailAre you a fan of Python Want to use it to create powerful web applications Then Flask is the perfect choice for you This course will take you through the intricacies of the Flask Microframework covering all it s components and elements and how to integrate it with useful third party libraries Dive deep into what Flask has to offer and then you will create multiple Python apps from scratch on your own The first module will introduce you to web development using Flask to building fully functional web applications Hands on and pragmatic this tutorial goes right to the crux of Flask by showing you how to build challenging real world applications The second module introduces you to a number of recipes that will help you understand the power of Flask and its extensions Start by seeing the different configurations that a Flask application can make use of By the end of this module you will have gained all the knowledge required to write Flask applications in the best possible way and scale them with best practices The final module will walk you through advanced Flask topics while providing practical examples of for all your lessons learned The module closes with a discussion of the different platforms that are available to deploy a Flask app on the pros and cons of each one and how to deploy on each one This Learning Path combines some of the best that Packt has to offer in one complete curated package It includes content from the following Packt products Flask By Example Gareth Dwyer Flask Framework Cookbook Shalabh Aggarwal Mastering Flask Jack StoufferStyle and approachFilled with practical examples and recipes this course is a great combination of example driven learning complemented by exciting techniques to build powerful Python web applications with the Flask framework **Proceedings of the Future Technologies Conference (FTC) 2020, Volume 3** Kohei Arai,Supriya Kapoor,Rahul Bhatia,2020-10-30 This book provides the state of the art intelligent methods and techniques for solving real world problems along with a vision of the future research The fifth 2020 Future Technologies Conference was organized virtually and received a total of 590 submissions from academic pioneering researchers scientists industrial engineers and students from all over the world The submitted papers covered a wide range of important topics including but not limited to computing electronics artificial intelligence robotics security and communications and their applications to the real world After a double blind peer review process 210 submissions including 6 poster papers have been selected to be included in these proceedings One of the meaningful and valuable dimensions of this conference is the way it brings together a large group of technology geniuses in one venue to not only present breakthrough research in future technologies but also to promote discussions and debate of relevant issues

challenges opportunities and research findings The authors hope that readers find the book interesting exciting and inspiring

Women in Precision Agriculture Takoi Khemais Hamrita,2020-08-17 This book features influential scholarly research and technical contributions professional trajectories disciplinary shifts personal insights and a combination of these from a group of remarkable women scholars within precision agriculture The authors provide a holistic and critical overview of the field of precision agriculture both crop and livestock highlighting breakthroughs and impactful research led by women investigators including relevant technologies decision making strategies practices applications economics opportunities and challenges They discuss the urgent need for reduced cost increased productivity more optimal use of resources and reduced impact on our environment The leading female researchers contributing to this book are creating new technological advances that are revolutionizing agriculture Focuses on advances in precision agriculture led by leading women researchers scholars and professionals Provides insight into women s technical contributions in precision agriculture Takes a holistic approach to precision agriculture addressing both land and livestock applications **Mastering Flask** Jack Stouffer,2015-09-30 Gain expertise in Flask to create dynamic and powerful web applications About This Book Work with scalable Flask application structures to create complex web apps Discover the most powerful Flask extensions and learn how to create one Deploy your application to real world platforms using this step by step guide Who This Book Is For If you are a Flask user who knows the basics of the library and how to create basic web pages with HTML and CSS and you want to take your applications to the next level this is the book for you Harnessing the full power of Flask will allow you to create complex web applications with ease What You Will Learn Set up a best practices Python environment Use SQLAlchemy to programmatically query a database Develop templates in Jinja Set up an MVC environment for Flask Discover NoSQL when to use it when not to and how to use it Develop a custom Flask extension Use Celery to create asynchronous tasks In Detail Flask is a library that allows programmers to create web applications in Python Flask is a micro framework that boasts a low learning curve a large community and the power to create complex web apps However Flask is easy to learn but difficult to master Starting from a simple Flask app this book will walk through advanced topics while providing practical examples of the lessons learned After building a simple Flask app a proper app structure is demonstrated by transforming the app to use a Model View Controller MVC architecture With a scalable structure in hand the next chapters use Flask extensions to provide extra functionality to the app including user login and registration NoSQL querying a REST API an admin interface and more Next you ll discover how to use unit testing to take the guesswork away from making sure the code is performing as it should The book closes with a discussion of the different platforms that are available to deploy a Flask app on the pros and cons of each one and how to deploy on each one Style and approach With plenty of useful examples this guide introduces new concepts and then shows you how those concepts can be used in a real world environment Most sections are based around a single example app that is developed throughout the book **Mastering Flask Web Development - Second Edition** Daniel Gaspar,Jack

Stouffer,2018-10-31 Learn to build modern secure highly available web MVC applications and API s using Python s Flask framework Key Features Create production ready MVC and REST API with the dynamic features of Flask Utilize the various extensions like Flask JWT and Flask SQLAlchemy to develop powerful applications Deploy your flask application on real world platforms like AWS and Heroku on VM s or Docker containers Book Description Flask is a popular Python framework known for its lightweight and modular design Mastering Flask Web Development will take you on a complete tour of the Flask environment and teach you how to build a production ready application You ll begin by learning about the installation of Flask and basic concepts such as MVC and accessing a database using an ORM You will learn how to structure your application so that it can scale to any size with the help of Flask Blueprints You ll then learn how to use Jinja2 templates with a high level of expertise You will also learn how to develop with SQL or NoSQL databases and how to develop REST APIs and JWT authentication Next you ll move on to build role based access security and authentication using LDAP OAuth OpenID and database Also learn how to create asynchronous tasks that can scale to any load using Celery and RabbitMQ or Redis You will also be introduced to a wide range of Flask extensions to leverage technologies such as cache localization and debugging You will learn how to build your own Flask extensions how to write tests and how to get test coverage reports Finally you will learn how to deploy your application on Heroku and AWS using various technologies such as Docker CloudFormation and Elastic Beanstalk and will also learn how to develop Jenkins pipelines to build test and deploy applications What you will learn Develop a Flask extension using best practices Implement various authentication methods LDAP JWT Database OAuth and OpenID Learn how to develop role based access security and become an expert on Jinja2 templates Build tests for your applications and APIs Install and configure a distributed task queue using Celery and RabbitMQ Develop RESTful APIs and secure REST API s Deploy highly available applications that scale on Heroku and AWS using Docker or VMs Who this book is for The ideal target audience for this book would be Python developers who want to use Flask and its advanced features to create Enterprise grade and lightweight applications The book is for those who have some exposure of Flask and want to take it from introductory to master level   Learning Flask Framework Matt Copperwaite,2015-11-26 Build dynamic data driven websites and modern web applications with FlaskAbout This Book Discover the most popular Flask resources on the web with ease Familiarize yourself with third party libraries commonly used with Flask Create a fast interactive and secure web app with this hands on guideWho This Book Is ForThis book is for anyone who wants to develop their knowledge of Python into something that can be used on the web Flask follows the Python design principles and can be easily understood by anyone who knows Python and even by those who do not What You Will Learn Create your web pages to add modularity and flexibility to your web app using templates Store and retrieve relational data using SQLAlchemy Develop schema migrations with Alembic Produce an admin section using flask admin Build RESTful APIs using Flask Restless Simulate requests and sessions using the Flask test client Make Ajax requests from Jinja2

templatesIn DetailFlask is a small and powerful web development framework for Python It does not presume or force a developer to use a particular tool or library Flask supports extensions that can add application features as if they were implemented in Flask itself Flask s main task is to build web applications quickly and with less code With its lightweight and efficient web development framework Flask combines rapid development and clean simple design This book will take you through the basics of learning how to apply your knowledge of Python to the web Starting with the creation of a Hello world Flask app you will be introduced to the most common Flask APIs and Flask s interactive debugger You will learn how to store and retrieve blog posts from a relational database using an ORM and also to map URLs to views Furthermore you will walk through template blocks inheritance file uploads and static assets You will learn to authenticate users build log in log out functionality and add an administrative dashboard for the blog Moving on you will discover how to make Ajax requests from the template and see how the Mock library can simplify testing complex interactions Finally you will learn to deploy Flask applications securely and in an automated repeatable manner and explore some of the most popular Flask resources on the web Style and approachA comprehensive guide packed with real world examples and popular use cases starting with basic overviews and diving into the practical aspects of Flask Framework *Core Python Applications Programming* Wesley Chun,2012 Rev ed of Core Python programming Wesley J Chun c2007 **Flask Web Development, 2nd Edition** Miguel Grinberg,2018 With Early Release ebooks you get books in their earliest form the author s raw and unedited content as he or she writes so you can take advantage of these technologies long before the official release of these titles You ll also receive updates when significant changes are made new chapters are available and the final ebook bundle is released Take full creative control of your web applications with Flask the Python based microframework With the second edition of this hands on book you ll learn the framework from the ground up by developing step by step a real world project created by author Miguel Grinberg This refreshed edition accounts for important technology changes that have occurred in the past three years You ll learn the framework s core functionality as well as how to extend applications with advanced web techniques such as database migration and web service communication The first part of each chapter provides you with reference and background for the topic in question while the second part guides you though a hands on implementation of the topic If you have Python experience this book shows you how to take advantage of the creative freedom Flask provides <u>American Book Publishing Record</u> ,1973 *Deep Learning with fastai Cookbook* Mark Ryan,2021-09-24 Harness the power of the easy to use high performance fastai framework to rapidly create complete deep learning solutions with few lines of code Key FeaturesDiscover how to apply state of the art deep learning techniques to real world problemsBuild and train neural networks using the power and flexibility of the fastai frameworkUse deep learning to tackle problems such as image classification and text classificationBook Description fastai is an easy to use deep learning framework built on top of PyTorch that lets you rapidly create complete deep learning solutions with as few as 10 lines of code Both predominant low level deep

learning frameworks TensorFlow and PyTorch require a lot of code even for straightforward applications In contrast fastai handles the messy details for you and lets you focus on applying deep learning to actually solve problems The book begins by summarizing the value of fastai and showing you how to create a simple hello world deep learning application with fastai You ll then learn how to use fastai for all four application areas that the framework explicitly supports tabular data text data NLP recommender systems and vision data As you advance you ll work through a series of practical examples that illustrate how to create real world applications of each type Next you ll learn how to deploy fastai models including creating a simple web application that predicts what object is depicted in an image The book wraps up with an overview of the advanced features of fastai By the end of this fastai book you ll be able to create your own deep learning applications using fastai You ll also have learned how to use fastai to prepare raw datasets explore datasets train deep learning models and deploy trained models What you will learnPrepare real world raw datasets to train fastai deep learning modelsTrain fastai deep learning models using text and tabular dataCreate recommender systems with fastaiFind out how to assess whether fastai is a good fit for a given problemDeploy fastai deep learning models in web applicationsTrain fastai deep learning models for image classificationWho this book is for This book is for data scientists machine learning developers and deep learning enthusiasts looking to explore the fastai framework using a recipe based approach Working knowledge of the Python programming language and machine learning basics is strongly recommended to get the most out of this deep learning book

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