

Software as a Service (SaaS)

Q: What makes SaaS different from just software?

(1):

(2):

(3):

Much like all of the other things talked about in the cloud, SaaS is a model of software that is **independent of programming language** and **independent of architectural design**.

Q: What features differentiate **SaaS** from **PaaS**?

(1):

(2):

(3):

Some software tools have characteristics of both SaaS and PaaS – these are general terms to understand the level of abstraction that you, as a developer, are working with or providing.

Large Categories of SaaS Software

- Human Resource Management (HRM)
- Customer Relationship Management (CRM)
- Enterprise Resource Planning (ERP)
- Content Management Systems (CMS)
- Billing Platforms
- Project Management
- Bookkeeping/Accounting
- Ecommerce
- Communication

Examples of SaaS at Illinois

Advantages of SaaS

1)

2)

3)

4)

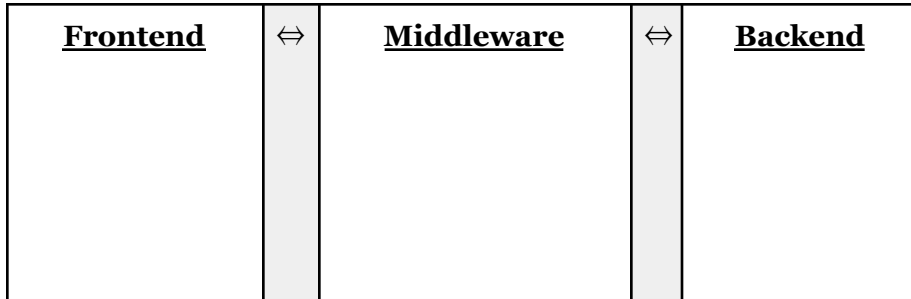
Legend:

	Abstracted by Cloud Provider		Customer Managed Unit of Scale		Customer Managed
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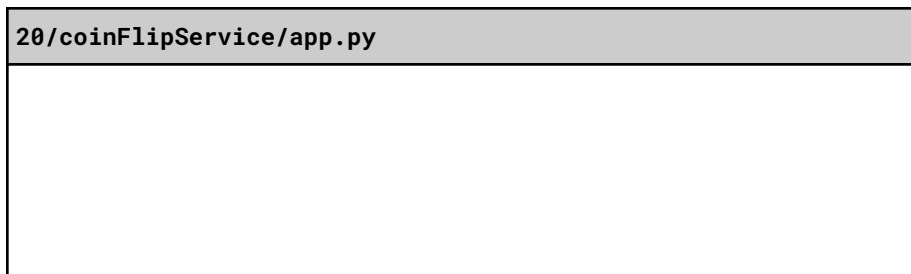
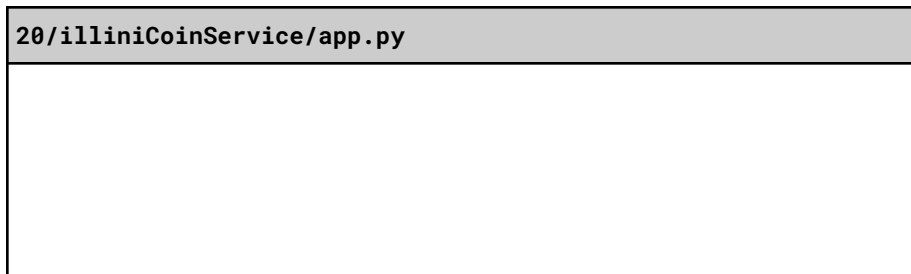
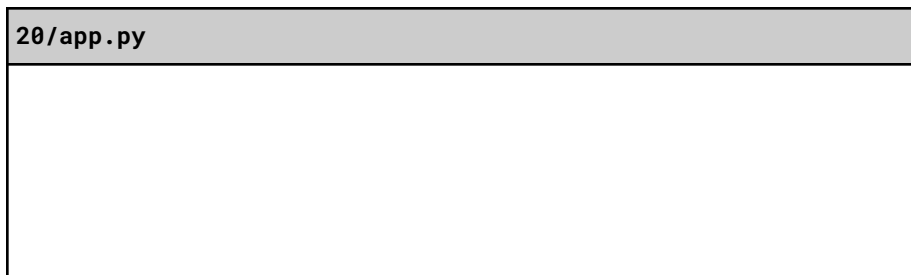
iaaS Infrastructure as a Service	CaaS Containers as a Service	PaaS Platform as a Service	FaaS Functions as a Service	SaaS Software as a Service
Data	Data	Data	Data	Data
Functions	Functions	Functions	Functions	Functions
Applications	Applications	Applications	Applications	Applications
Runtime	Runtime	Runtime	Runtime	Runtime
Containers*	Containers	Containers*	Containers*	Containers*
OS	OS	OS	OS	OS
Virtualization	Virtualization	Virtualization	Virtualization	Virtualization
Hardware	Hardware	Hardware	Hardware	Hardware

Architecture Layers of Software:

Q: What **defines** each architectural layer of software?

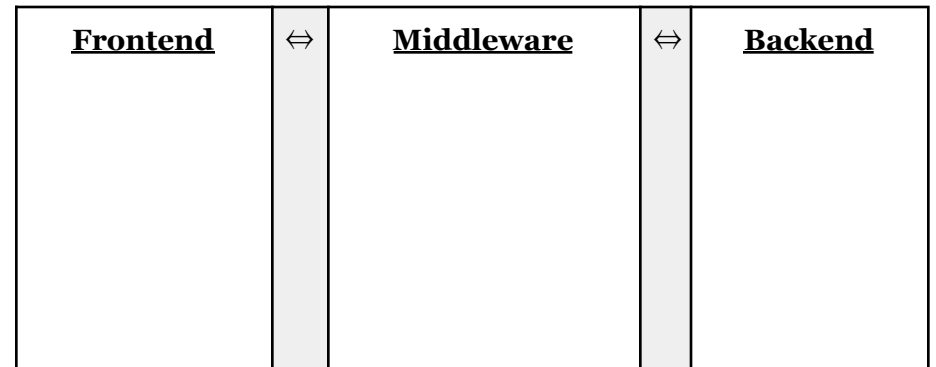


Software Study: Illini CoinFlip!



Software Architecture and Interaction Diagram

Concerns/Bottlenecks for each architectural layer:



Common Technologies:

