
ECS165A

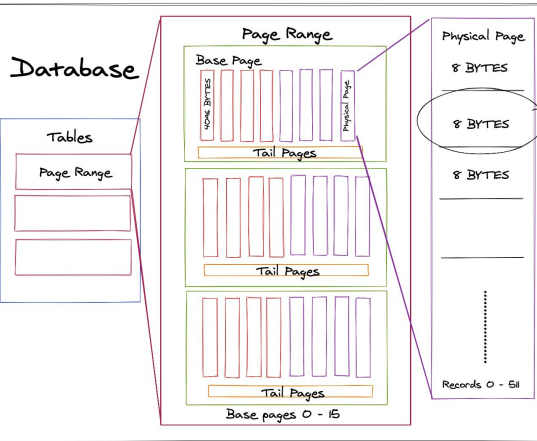
Milestone 3 Overview

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Objectives

- Overview of QueCC
 - Transaction & Query Ops
 - Planner Worker
 - Execution Worker
 - Intern Worker
 - Database UI
 - Demo
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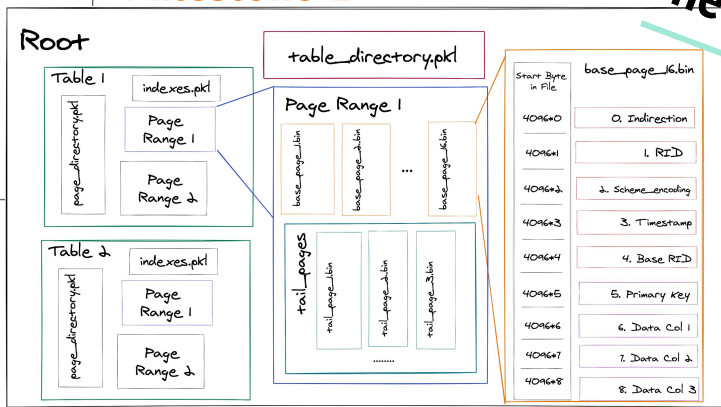
Milestone 1



Volatile Memory

The Path to Durability

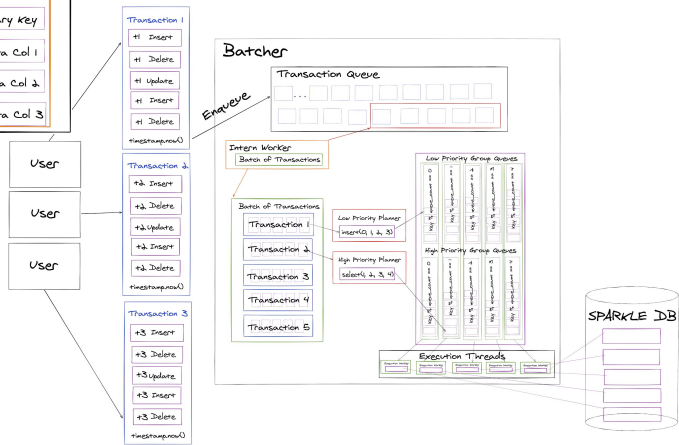
Milestone 2



Non-Volatile Memory

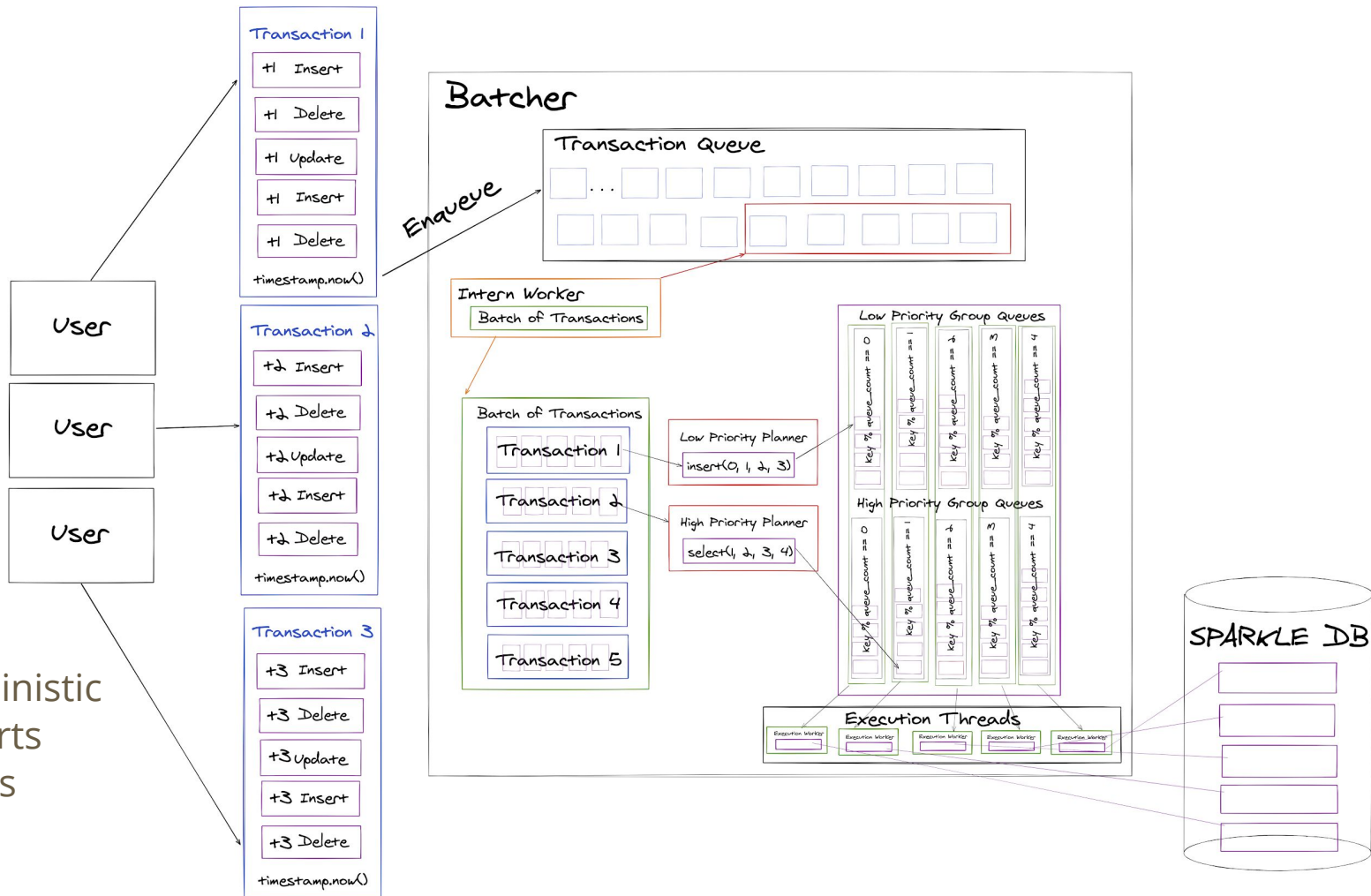
The Path to Concurrency

Milestone 3



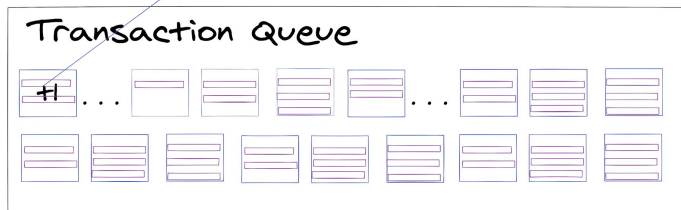
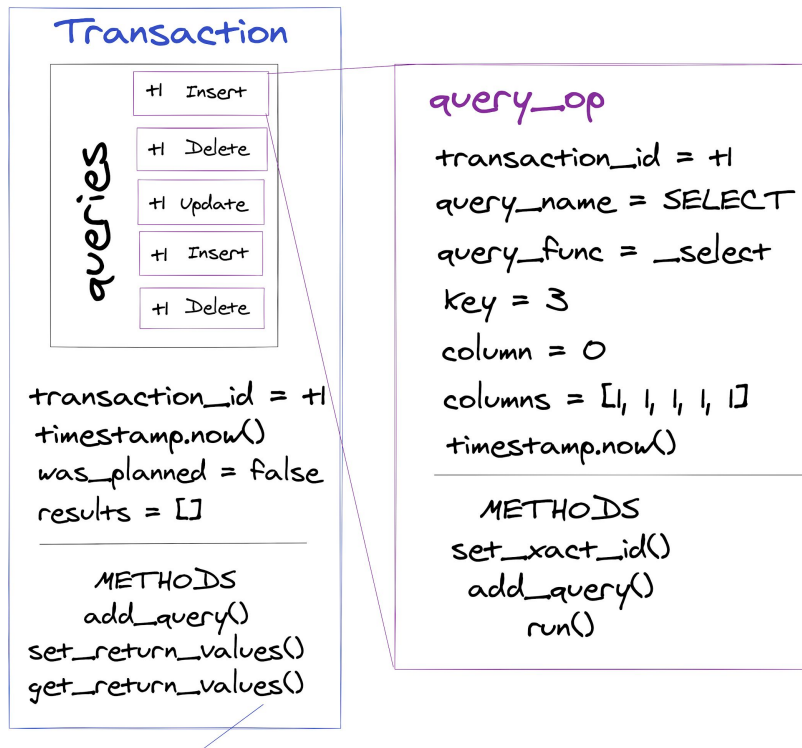
Overview of QueCC

- Deterministic
- No aborts
- No locks



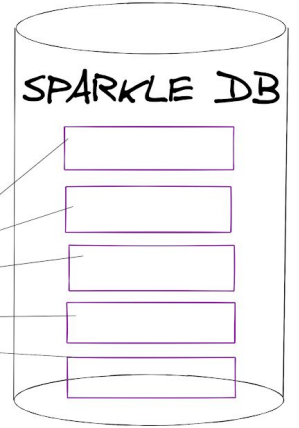
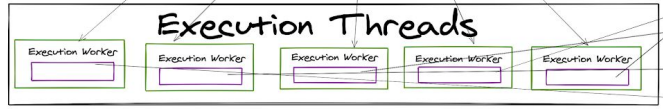
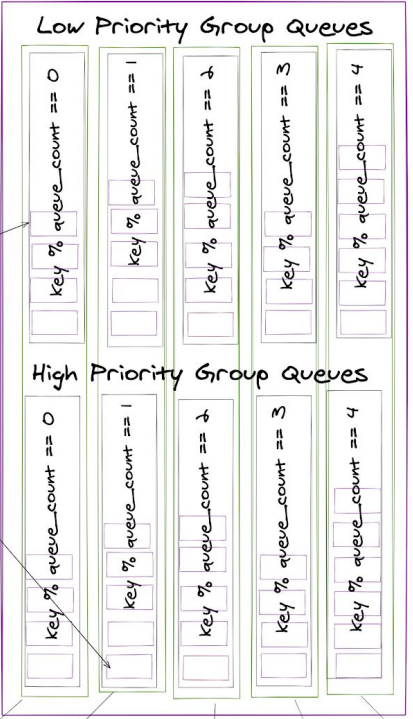
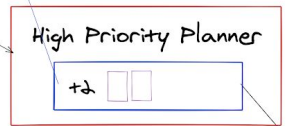
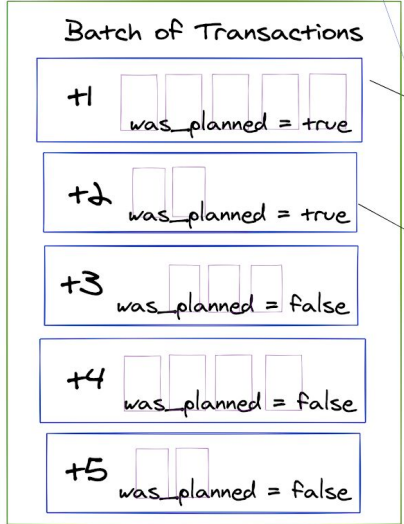
Transaction & Query Operations

- Queries return query objects
- Query objects are wrapped in transactions
- Add transactions to the transaction queue to be planned and executed at a later time

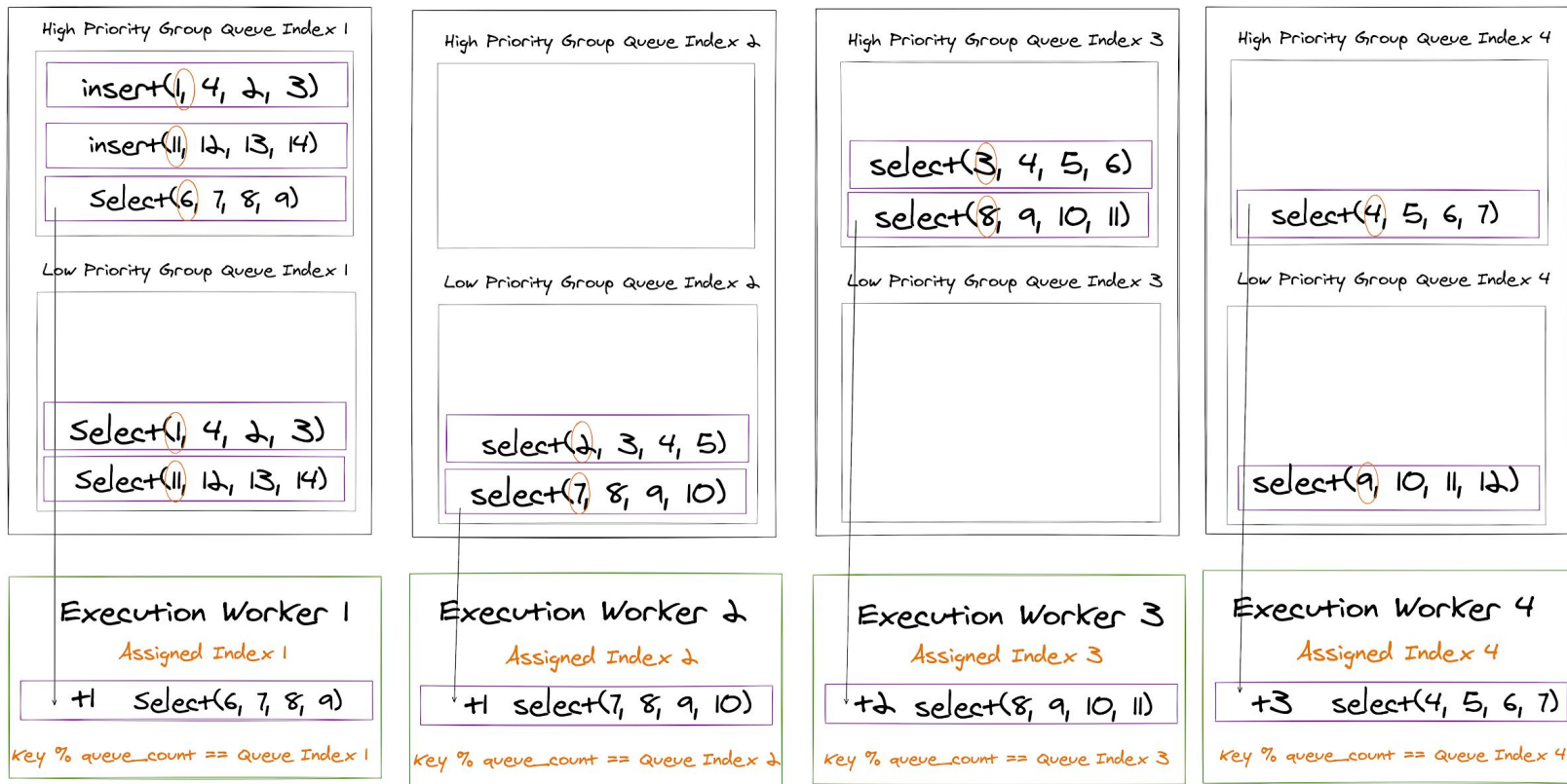


Planner Worker

Transaction Meta Data			
	query count	ret_list	is_done
t1	5		False
t2	2		False
t3	3		False
t4	4		False
t5	2		False

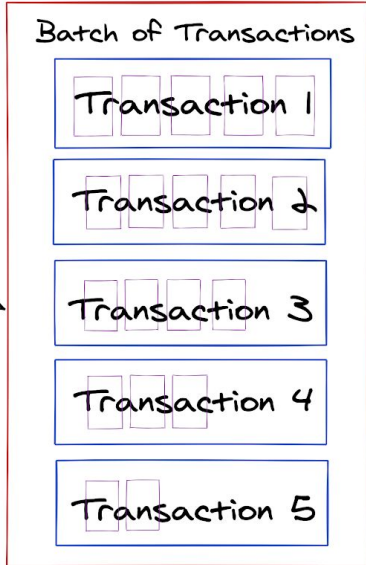
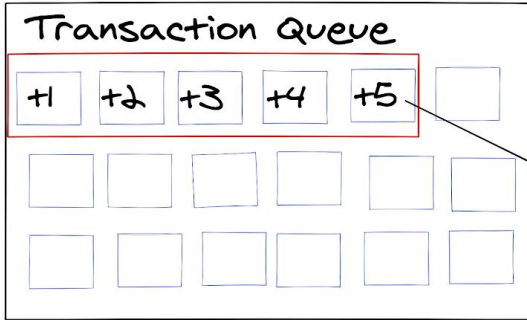


Execution Worker

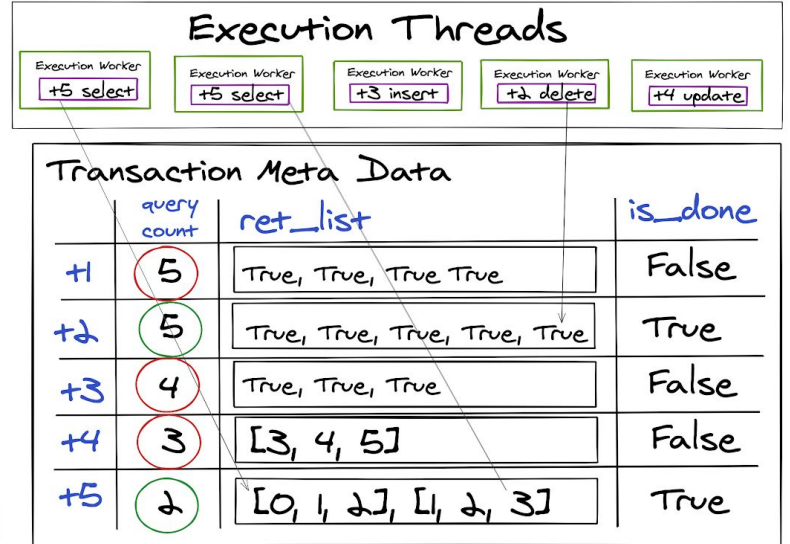


Intern Worker

*Batches transactions



*Checks when transactions are complete



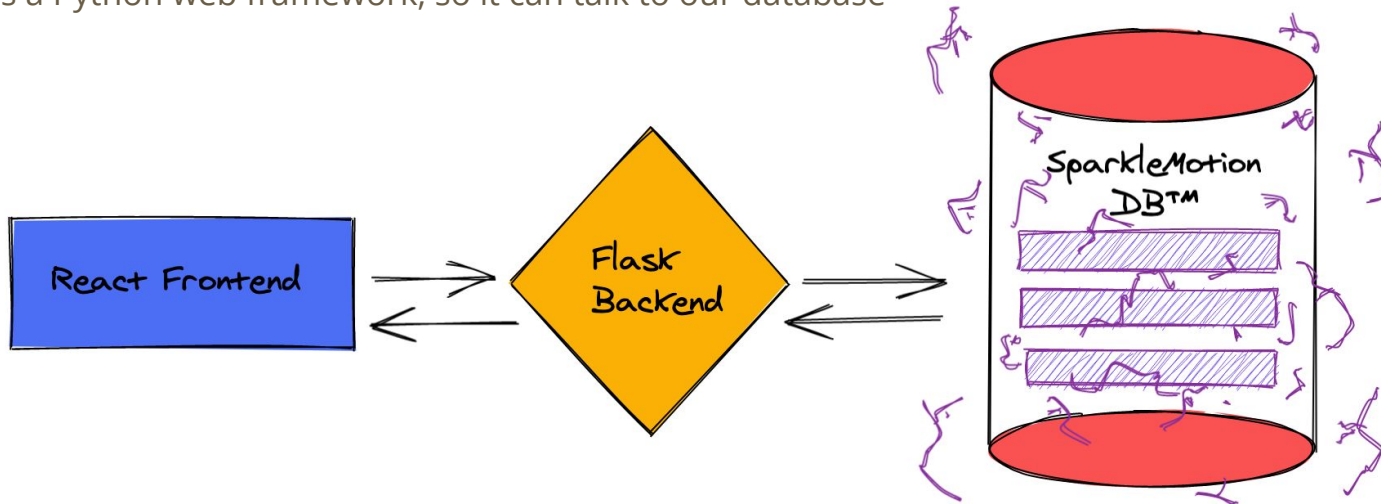
Database UI

Front end interface running React.js

- Accessed through a browser

Front end interface talks to a backend running Flask

- Flask is a Python web framework, so it can talk to our database



Demo