

Software Engineering Bootcamp

Saudi Digital Academy



Getting Started

Your Instructors, Curriculum, Schedule, & Suggestions



Meet Your Instructors



Devlin Booth - Lead Instructor

A General Assembly graduate and Instructor for 3 years with a non-stop growth mindset. Currently building a search engine for book lovers using React, PineconeDB, and ChatGPT.



Cynthia Castillo - Instructional Associate

Full Stack Developer and Instructor with global teaching experience, from Bahrain to the U.S. and Latin America. Passionate about learning, innovating, and guiding others on their journey to knowledge.



Sam Bassong - Instructional Associate

GA graduate with 2 years of industry experience, now dedicated to empowering new developers on their journey into tech. Currently building a community-based platform using NextJS, NestJS, and MongoDB.

CURRICULUM: SOFTWARE ENGINEERING BOOTCAMP

 Instructor-Led

 Onsite or Remote

 ~480 Hours

Overview:

Reskill non-technical talent into full-stack engineering roles to make immediate contributions to software projects. Participants will gain a solid base of fundamental programming, computer science knowledge, and experience with languages, frameworks, and libraries that the industry demands.

Business Outcomes:

- Build engineering capacity within your tech team.
- Transform non-technical talent into job-ready software engineers.
- Solve real engineering problems through capstone projects.

Software Engineering Training

| Front-End Fundamentals | Python Programming | Intro to SQL & Django Web Framework | Django Rest API / Testing | React / Capstone | Career Coaching |
|--|---|---|---|--|---|
| Reinforce foundational front-end development and key programming concepts to create interactive web experiences. | Master Python fundamentals, object-oriented programming concepts, and advanced techniques to build scalable applications. | Master PostgreSQL fundamentals, including database design, querying, and data management, to effectively support robust and scalable application development. | Learn to build robust RESTful APIs with Django Rest Framework, implement secure JWT authentication, and apply testing techniques to ensure reliable, high-quality applications. | Master React fundamentals, including components, state management, hooks, client-side routing, API integration, and secure user authentication, to build dynamic web applications. | Learn about building a personal brand, LinkedIn best practices, resume best practices, and behavioral, and technical Interviewing skills. |



Anatomy of SEB: Unit 1 - Front-End Fundamentals

2 WEEKS (wks 1 & 2)

| UNIT OBJECTIVE | WHAT'S COVERED |
|--|--|
| Learn the fundamentals of front-end development to create interactive web experiences. Gain practical skills in key programming concepts and insights into the daily work life of a professional engineer. | <ul style="list-style-type: none">● Learn to navigate a file system and configure development environments via a UNIX command line.● Use Git and GitHub for version control.● Structure web pages using HTML and account for accessibility and SEO needs by implementing semantic HTML.● Style web pages and make them responsive using CSS.● Analyze into fundamental programming concepts like data types, variables, functions, control flow, and scope with JavaScript.● Respond to user actions with DOM Events.● Other topics covered include working with common developer applications, reading documentation, debugging code in the browser, and thinking programmatically. |

Anatomy of SEB: Unit 2 - Python Programming

2 Weeks (wks 3 & 4)

| UNIT OBJECTIVE | WHAT'S COVERED |
|--|--|
| <p>Learn Python fundamentals, including syntax, data types, variables, and control flow structures, while developing a strong foundation in programming. Explore object-oriented programming (OOP) concepts and advanced techniques such as inheritance, encapsulation, polymorphism, and exception handling to create robust and scalable applications. Finally, apply this knowledge to design and implement a practical project that demonstrates your expertise in Python and problem-solving.</p> | <ul style="list-style-type: none">• Learn the fundamental building blocks of Python programming, including syntax, data types, variables, and control flow structures, to establish a strong foundation.• Dive into OOP concepts such as classes, objects, inheritance, and encapsulation to create modular and scalable applications.• Learn how to manage and handle errors gracefully using Python's exception handling mechanisms, ensuring robust and user-friendly programs.• Analyze advanced object-oriented techniques, including polymorphism, abstract classes, and method overriding, to enhance the functionality and flexibility of your code.• Apply all the concepts learned in this unit to design and implement a practical project that demonstrates your mastery of Python programming and problem-solving skills. |

Anatomy of SEB: Unit 3 - Intro to SQL and Django Web Framework

2 WEEKS (wks 5 & 6)

| UNIT OBJECTIVE | WHAT'S COVERED |
|---|--|
| <p>Learn PostgreSQL, focusing on its role as a powerful relational database management system. Gain hands-on experience in database design, writing queries, and managing data to support application development. By mastering these fundamentals, you will effectively store, retrieve, and manage data for robust and scalable applications.</p> | <ul style="list-style-type: none">• Apply the fundamentals of PostgreSQL, including database design, querying, and management, to effectively store and retrieve data for applications.• Build web applications using Django, focusing on its powerful features for rapid development and integration with databases.• Use Django models to define and interact with database tables, enabling efficient data management within applications.• Implement and manage one-to-one, one-to-many, and many-to-many relationships in Django to create robust relational database structures.• Develop secure applications by implementing user authentication in Django, including user login, registration, and permissions management. |

Anatomy of SEB: Unit 4 - Django Rest API / Testing

2 WEEKS (wks 7 & 8)

| UNIT OBJECTIVE | WHAT'S COVERED |
|--|--|
| <p>Learn how to build robust and efficient RESTful APIs using Django Rest Framework, enabling seamless communication between front-end and back-end systems.</p> <p>Implement secure user authentication using JSON Web Tokens (JWT) for scalable, stateless authentication.</p> <p>Additionally, apply unit and API testing techniques to validate functionality, performance, and reliability, ensuring the development of error-free and high-quality applications.</p> | <ul style="list-style-type: none">• Build RESTful APIs using Django Rest Framework, enabling efficient communication between front-end and back-end systems.• Implement secure user authentication in APIs using JSON Web Tokens (JWT) for stateless and scalable authentication.• Apply the principles of unit testing and write test cases to validate the functionality of individual components within Django applications.• Develop skills to test APIs for correctness, performance, and reliability, ensuring robust and error-free integration between systems. |

Anatomy of SEB: Unit 5 - React / Capstone

2 WEEKS (wks 9 & 10)

| UNIT OBJECTIVE | WHAT'S COVERED |
|--|---|
| Learn the fundamentals of React, focusing on its role in building dynamic and modern web applications. Master key concepts such as reusable components, state management, and controlled forms, while leveraging React Hooks to efficiently manage state and lifecycle methods. Additionally, implement client-side routing, integrate APIs for dynamic data exchange, and implement secure user authentication to create seamless and interactive user experiences. | <ul style="list-style-type: none">• Demonstrate a comprehensive understanding of React and its role in building dynamic, modern web applications.• Create reusable and modular React components to structure and streamline application development.• Explain how to manage and update component state efficiently for dynamic and interactive user interfaces.• Develop skills to create and manage controlled and uncontrolled forms for handling user input effectively.• Use React Hooks, such as useState and useEffect, to manage state and lifecycle methods without class components.• Implement client-side routing with libraries like React Router to enable seamless navigation between pages in single-page applications.• Build and integrate APIs with React applications, enabling dynamic data exchange between front-end and back-end systems.• Implement user authentication in React applications, ensuring secure access and seamless user experiences. |

Anatomy of SEB: Unit 6 - Career Coaching

1 WEEK (wk 11)

UNIT OBJECTIVE

Prepare to navigate the job market with confidence by focusing on essential career development skills. Build a strong personal brand, and optimize resume, and LinkedIn profiles for effective networking. Practice behavioral and technical interviewing, along with mock interviews. Craft a targeted job search strategy and evaluate opportunities.

WHAT'S COVERED

- Learn the importance and significance of outcomes.
- Develop skills to create a personal brand.
- Build a LinkedIn profile using best practices.
- Develop and workshop a polished resume using best practices.
- Learn networking best practices.
- Develop skills and practice behavioral interviewing, and technical interviewing.
- Demonstrate a comprehensive understanding of job search strategies and qualifications.
- Apply the principles of and the expectations of career work ethics.

CIASS SCHEDULE EXAMPLE

| Week 1 | | | | | | |
|-------------------------------|---------------|--|---|----------------------------------|-----------------------------------|--|
| Schedule | Time | Sunday | Monday | Tuesday | Wednesday | Thursday |
| Morning Activity | 9:00 - 10:00 | Welcome to SEI! 🎉 (Instructional Team 心脏病) | Unix Cli Study | Pseudocode | | Intro to Accessibility |
| Morning (Instruction / Lab) | 10:00 - 12:30 | | Intro to Git and Github | Intro to CSS | Build a Portfolio | Intro to JavaScript |
| Lunch 12:30 - 1:30 | | | | | | |
| Instructor Support | 1:30 – 2:30 | Instructor AMA | HW Review | HW Review | HW Review | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Intro to CLI | Intro to HTML | Intermediate CSS | Build a Portfolio | Control Flow in JavaScript |
| Homework | | To Oz | | Wendy Bite | | ASCII Art |
| | | | | | | CYO JS Adventure! |

| Color Key |
|--------------------|
| Preparation |
| Morning Activity |
| Instruction |
| Instructor Support |
| Application / Lab |
| Homework |
| Capstone |



Remember Your “To Do” List

- Be engaged and ask questions
- Stay in touch with your instructors
- Don’t hesitate to experiment and explore
- Don’t stress about taking notes
- Avoid being sidetracked by your inbox or phone calls
- Assist your colleagues



How do I receive support?

We have many learners in this program. Here are some tips for getting assistance:

- Is your question **specific to you** or **beneficial for everyone**?
 - If it's individual, reach out to an instructor
 - If it's general, follow along below...
- Is someone **actively teaching**?
 - Firstly, use the "raise hand" function
 - Secondly, if suitable, seize a quiet moment to speak up
- Is there **downtime, a break, or nobody speaking**?
 - Don't hesitate to participate!



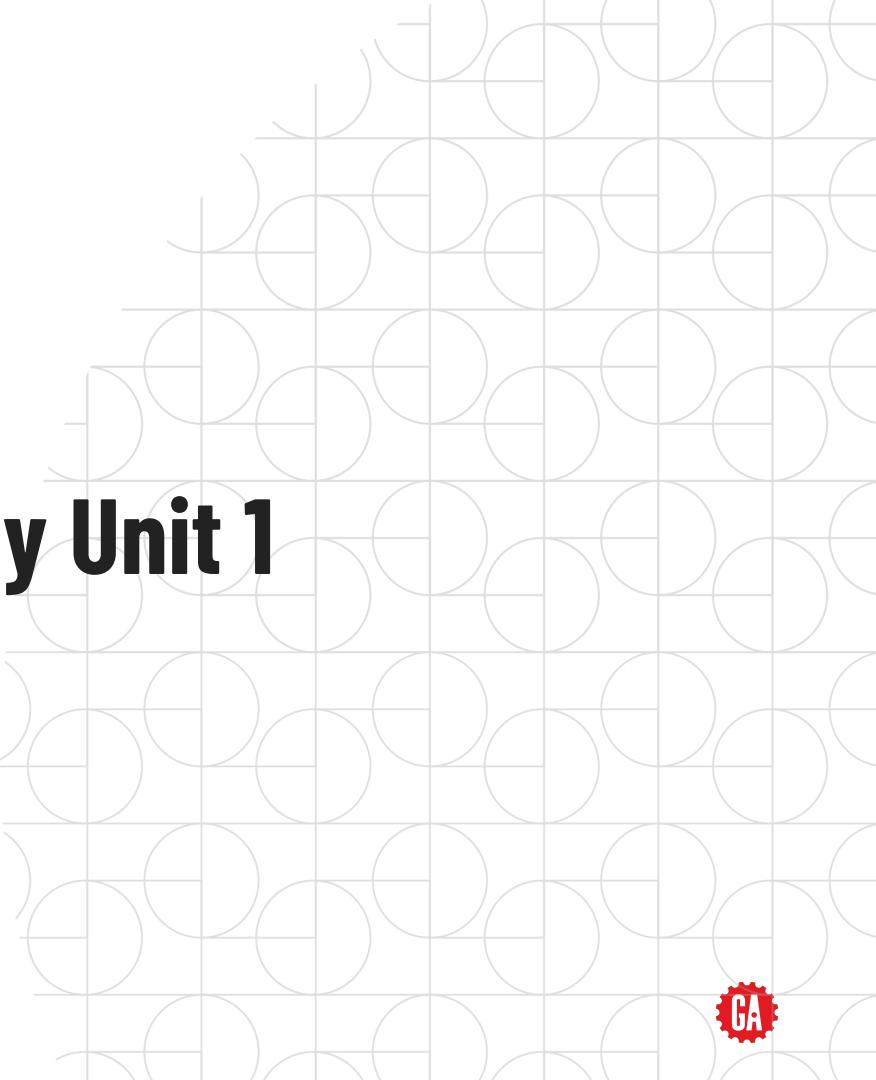
BREAK TIME



WELCOME

Saudi Digital Academy Unit 1

Front-End Fundamentals (Week 1)



Unit 1 Front-End Fundamentals

Week 1 Schedule



| Week 1 | | | | | | |
|-------------------------------|---------------|--|---|----------------------------------|-----------------------------------|--|
| Schedule | Time | Sunday | Monday | Tuesday | Wednesday | Thursday |
| Morning Activity | 9:00 - 10:00 | Welcome to SEI! 🎉 (Instructional Team ♥) | Unix Cli Study | Pseudocode | | Intro to Accessibility |
| Morning (Instruction / Lab) | 10:00 - 12:30 | | Intro to Git and Github | Intro to CSS | Build a Portfolio | Intro to JavaScript |
| Lunch 12:30 - 1:30 | | | | | | |
| Instructor Support | 1:30 – 2:30 | Instructor AMA | HW Review | HW Review | HW Review | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Intro to CLI | Intro to HTML | Intermediate CSS | Build a Portfolio | Control Flow in JavaScript |
| Homework | | To Oz | | Wendy Bite | | ASCII Art |
| | | | | | | CYO JS Adventure! |

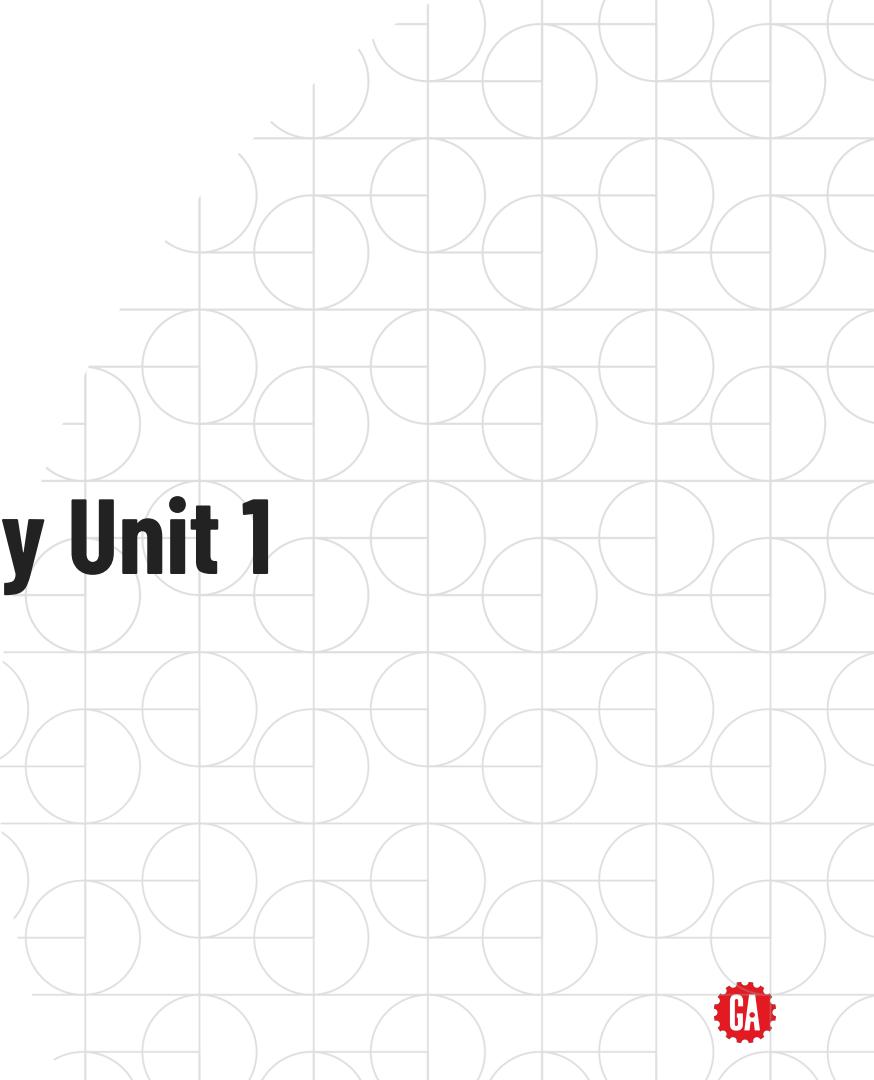
| Color Key |
|--------------------|
| Preparation |
| Morning Activity |
| Instruction |
| Instructor Support |
| Application / Lab |
| Homework |
| Capstone |



WELCOME

Saudi Digital Academy Unit 1

Front-End Fundamentals
Week 1 - Day 1



Unit 1 Front-End Fundamentals

Day 1 Schedule



| Schedule | Time | Sunday |
|----------------------------------|-------------|--|
| Morning Activity | 9:00 -10:00 | <u>Welcome to SEI! 🎉 (Instructional Team ❤️)</u> |
| Morning (Instruction / Lab) | 10:00-12:30 | <u>Installfest</u> |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 - 2:30 | <u>Instructor AMA</u> |
| Afternoon (Instruction / Lab) | 2:30 - 5:00 | <u>Intro to CLI</u> |
| Homework | | <u>To Oz</u> |

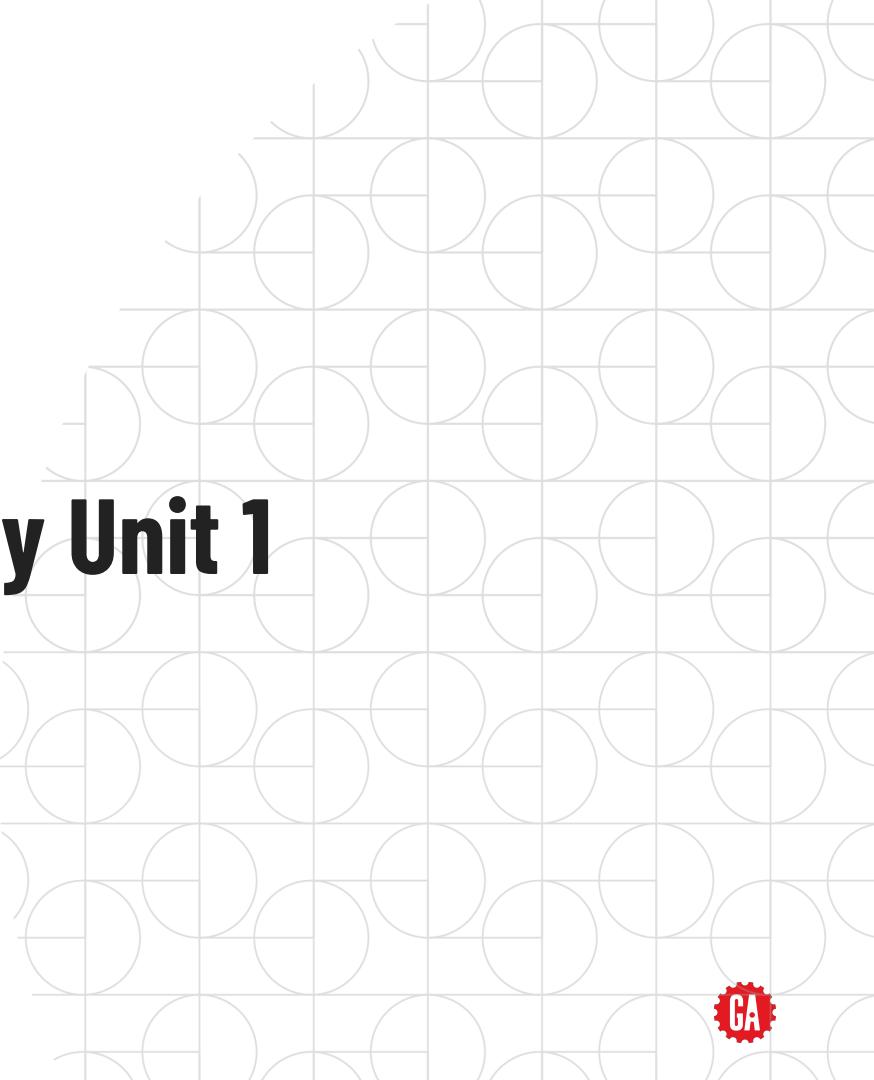
BREAK TIME



WELCOME

Saudi Digital Academy Unit 1

Front-End Fundamentals
Week 1 - Day 2





Unit 1 Front-End Fundamentals

Day 2 Schedule

| Schedule | Time | Monday |
|----------------------------------|-------------|--|
| Morning Activity | 9:00 -10:00 | <u>Unix Cli Study</u> |
| Morning (Instruction / Lab) | 10:00-12:30 | <u>Intro to Git and Github</u> |
| 12:30 - 1:30 Lunch | | |
| Instructor Support | 1:30 - 2:30 | <u>HW Review</u> |
| Afternoon (Instruction / Lab) | 2:30 - 5:00 | <u>Intro to HTML</u> |
| Homework | | |



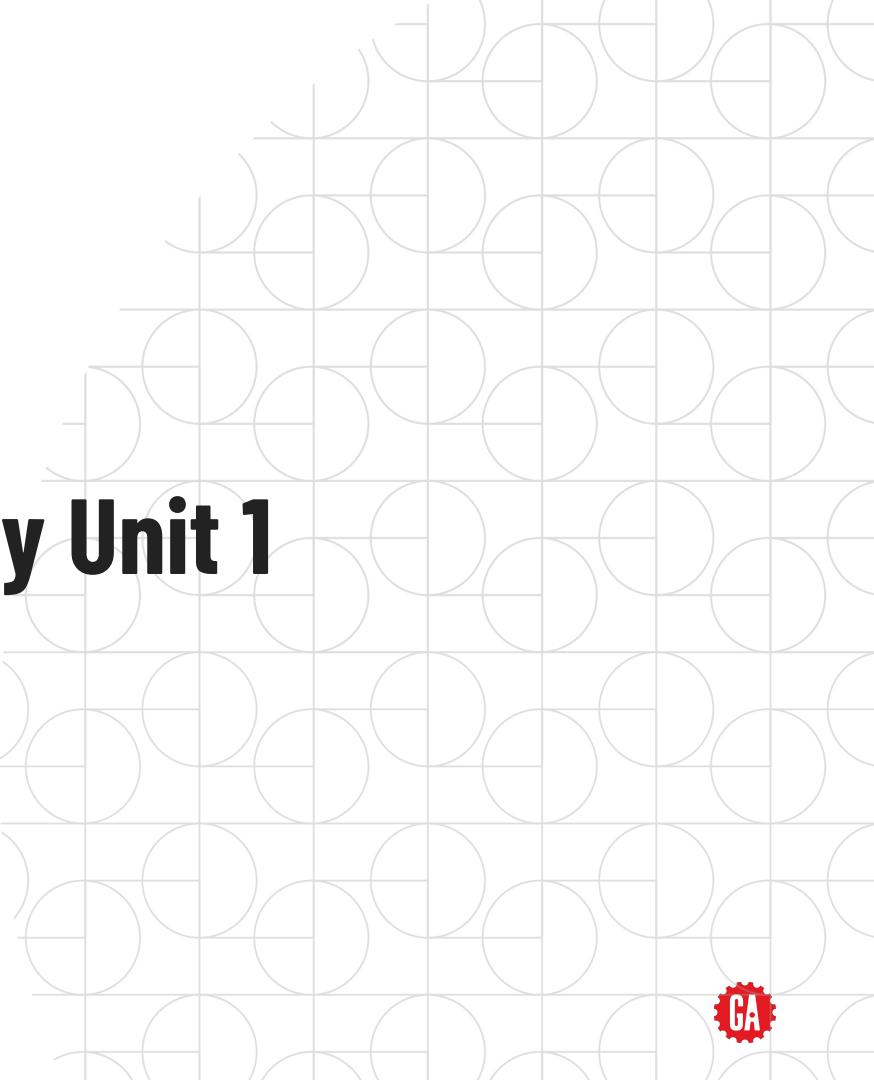
BREAK TIME



WELCOME

Saudi Digital Academy Unit 1

Front-End Fundamentals
Week 1 - Day 3





Unit 1 Front-End Fundamentals

Day 3 Schedule

| Schedule | Time | Tuesday |
|----------------------------------|-------------|---|
| Morning Activity | 9:00 -10:00 | <u>Pseudocode</u> |
| Morning (Instruction / Lab) | 10:00-12:30 | <u>Intro to CSS</u> |
| 12:30 - 1:30 Lunch | | |
| Afternoon (Instruction / Lab) | 2:30 - 5:00 | <u>Intermediate CSS</u> |
| Homework | | <u>Wendy Bite</u> |

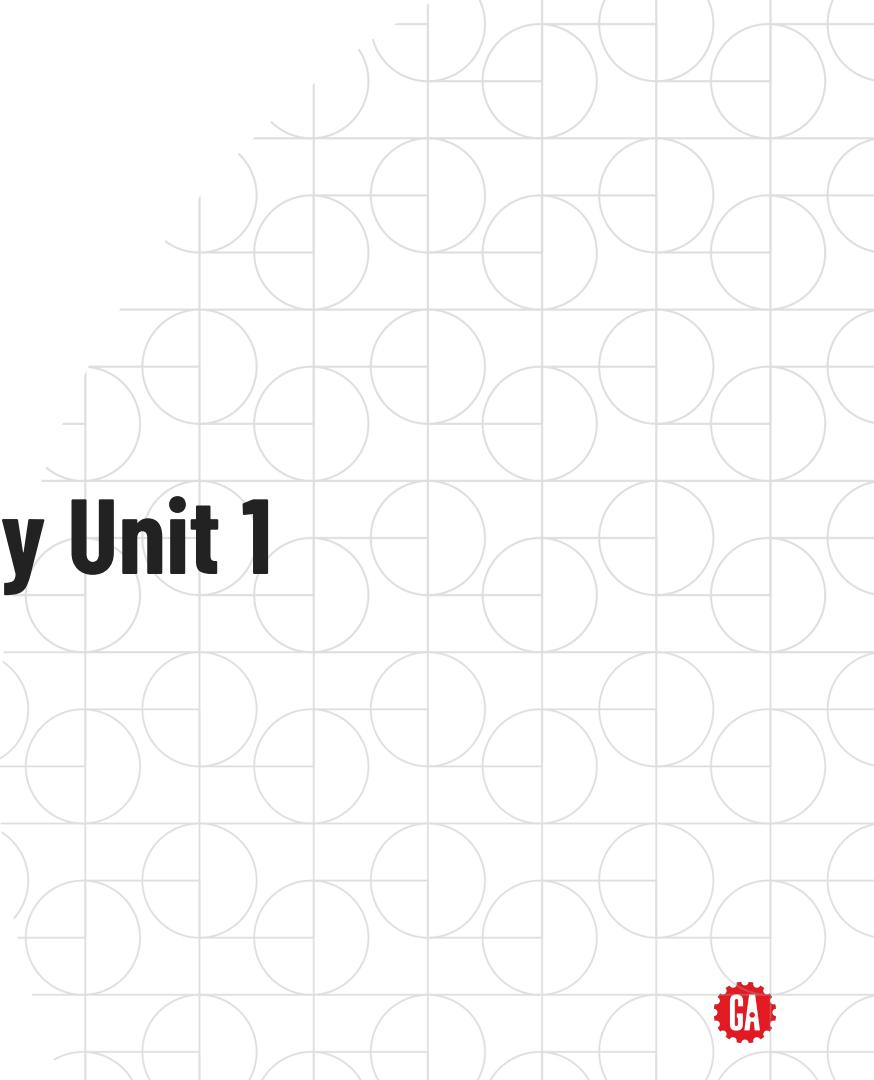
BREAK TIME



WELCOME

Saudi Digital Academy Unit 1

Front-End Fundamentals
Week 1 - Day 4





Unit 1 Front-End Fundamentals

Day 4 Schedule

| Schedule | Time | Wednesday |
|-------------------------------|-------------|--------------------------|
| Morning Activity | 9:00 -10:00 | <u>Build a Portfolio</u> |
| Morning (Instruction / Lab) | 10:00-12:30 | |
| 12:30 - 1:30 Lunch | | |
| Instructor Support | 1:30 - 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 - 5:00 | <u>Build a Portfolio</u> |
| Homework | | |



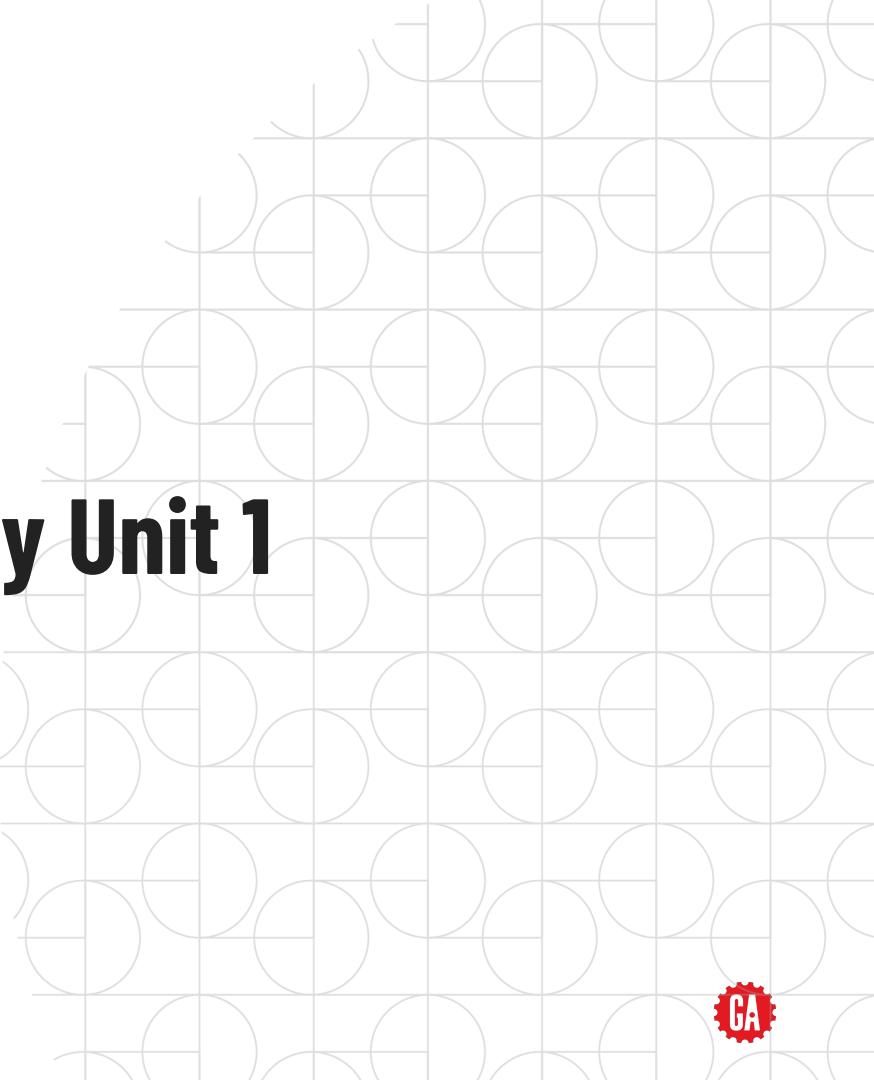
BREAK TIME



WELCOME

Saudi Digital Academy Unit 1

Front-End Fundamentals
Week 1 - Day 5





Unit 1 Front-End Fundamentals

Day 5 Schedule

| Schedule | Time | Thursday |
|----------------------------------|-------------|---|
| Morning Activity | 9:00 -10:00 | <u>Intro to Accessibility</u> |
| Morning (Instruction / Lab) | 10:00-12:30 | <u>Intro to JavaScript</u> |
| 12:30 - 1:30 Lunch | | |
| Afternoon (Instruction / Lab) | 2:30 - 5:00 | <u>Control Flow in JavaScript</u> |
| <u>ASCII Art</u> | | |
| Homework | | <u>CYO JS Adventure!</u> |



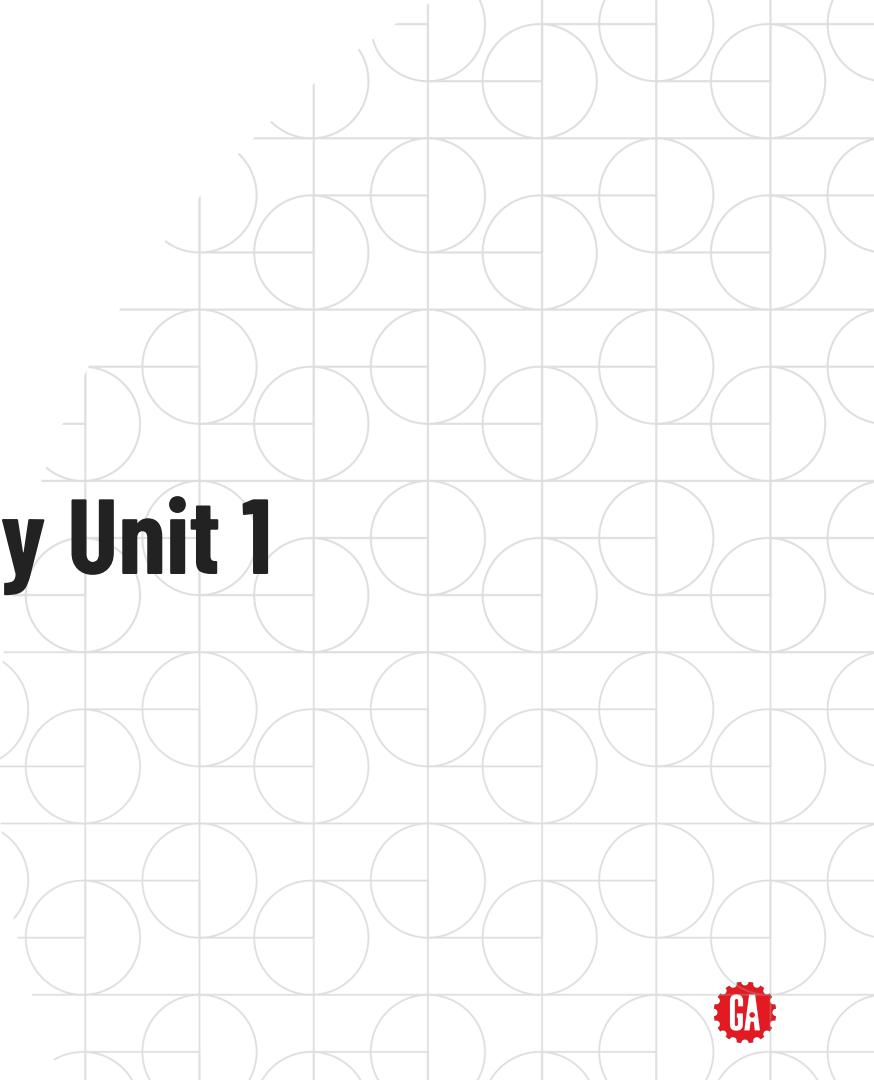
BREAK TIME



WELCOME

Saudi Digital Academy Unit 1

Front-End Fundamentals (Week 2)



Unit 1 Front-End Fundamentals

Week 2 Schedule



| Week Two | | | | | | |
|-------------------------------|---------------|---|---|---|----------------------------------|---|
| Schedule | Time | Sunday | Monday | Tuesday | Wednesday | Thursday |
| Morning Activity | 9:00 - 10:00 | Hacker Rank JS | Hacker Rank JS | Hacker Rank JS | Hacker Rank JS | Hacker Rank JS |
| Morning (Instruction / Lab) | 10:00 - 12:30 | Intro to JavaScript Functions JavaScript Scope | Intro to JavaScript Arrays | JavaScript Built in Objects and Classes | Intro to the DOM | DOM Events Lab |
| Lunch 12:30 - 1:30 | | | | | | |
| Instructor Support | 1:30 – 2:30 | HW Review | HW Review | HW Review | HW Review | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Intro to JavaScript Objects | Intro to JavaScript Arrays Lab | Intro to JavaScript Objects Lab | DOM Events | DOM Events Lab |
| Homework | | Intro to JavaScript Functions Lab | Finish Intro to JavaScript Arrays Lab | JS Gladiator | Pixart | JS Dom Events Slideshow |

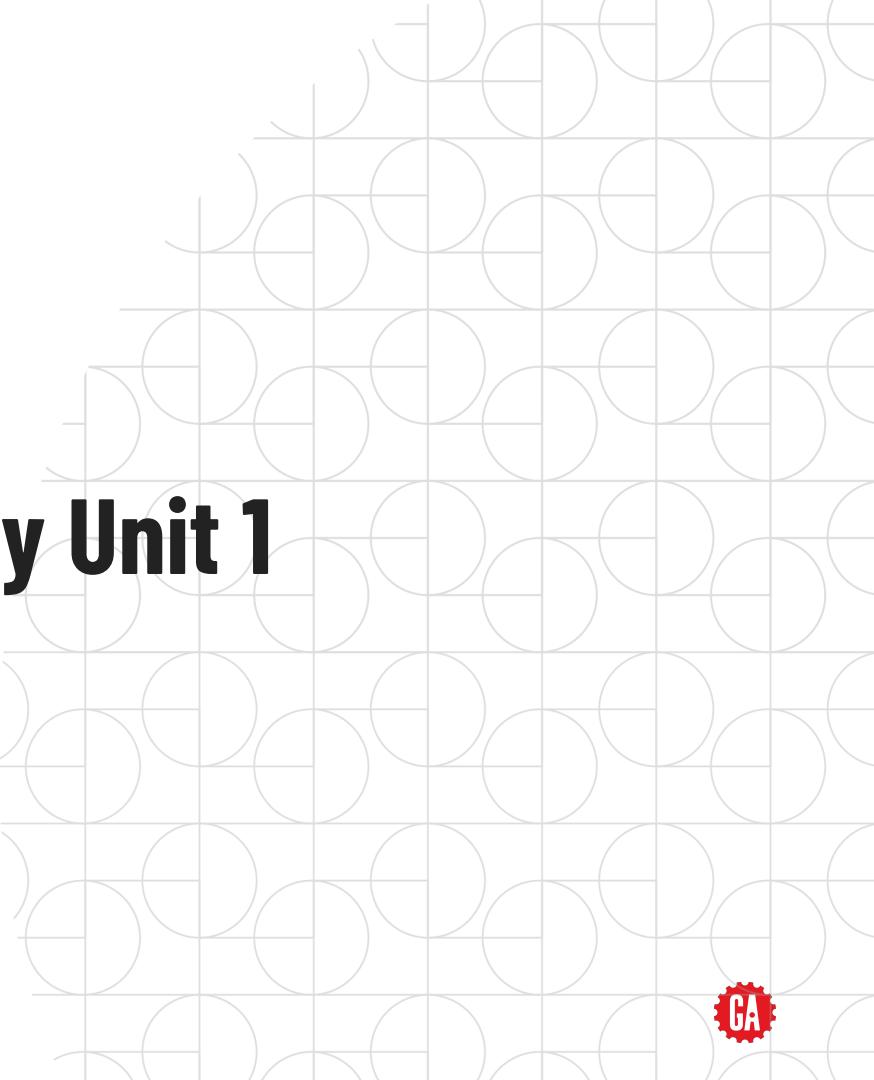
| Color Key |
|--------------------|
| Preparation |
| Morning Activity |
| Instruction |
| Instructor Support |
| Application / Lab |
| Homework |
| Capstone |



WELCOME

Saudi Digital Academy Unit 1

Front-End Fundamentals
Week 2 - Day 1



Unit 1 Front-End Fundamentals

Day 1 Schedule



| Schedule | Time | Sunday |
|--------------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | Hacker Rank JS |
| Morning (Instruction / Lab) | 10:00 - 12:30 | Intro to JavaScript Functions JavaScript Scope |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | Instructor AMA |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Intro to JavaScript Objects |
| Homework | | Intro to JavaScript Functions Lab |

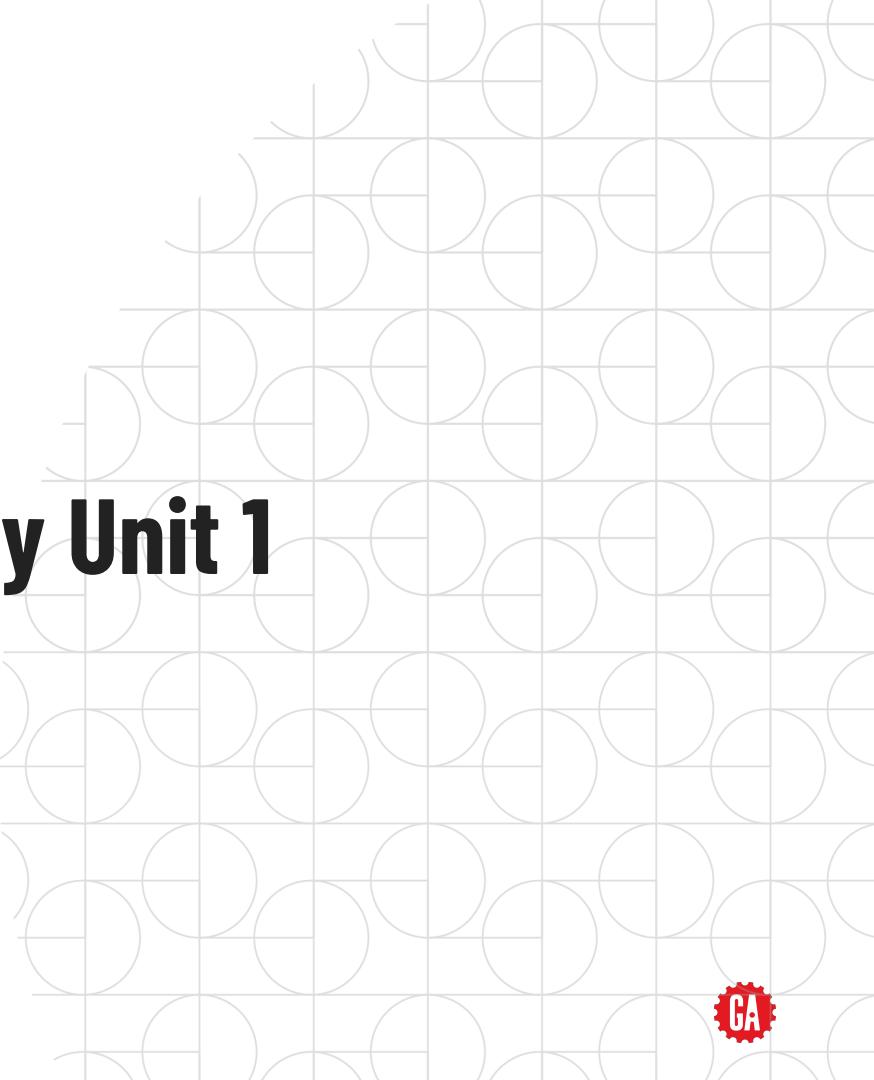
BREAK TIME



WELCOME

Saudi Digital Academy Unit 1

Front-End Fundamentals
Week 2 - Day 2



Unit 1 Front-End Fundamentals

Day 2 Schedule



| Schedule | Time | Monday |
|--------------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | Hacker Rank JS |
| Morning (Instruction / Lab) | 10:00 - 12:30 | Intro to JavaScript Arrays |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Intro to JavaScript Arrays Lab |
| Homework | | Finish Intro to JavaScript Arrays Lab |



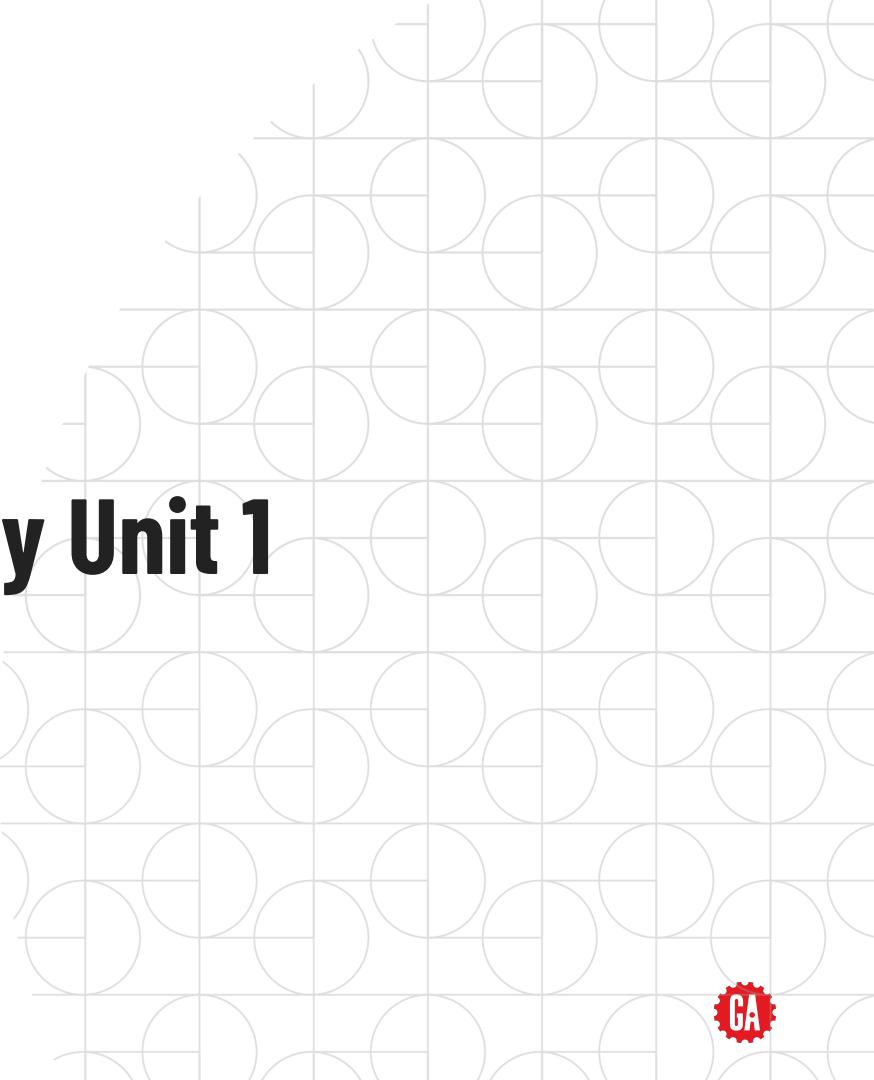
BREAK TIME



WELCOME

Saudi Digital Academy Unit 1

Front-End Fundamentals
Week 2 - Day 3



Unit 1 Front-End Fundamentals

Day 3 Schedule



| Schedule | Time | Tuesday |
|-------------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | Hacker Rank JS |
| Morning (Instruction / Lab) | 10:00 - 12:30 | JavaScript Built in Objects and Classes |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Intro to JavaScript Objects Lab |
| Homework | | JS Gladiator |

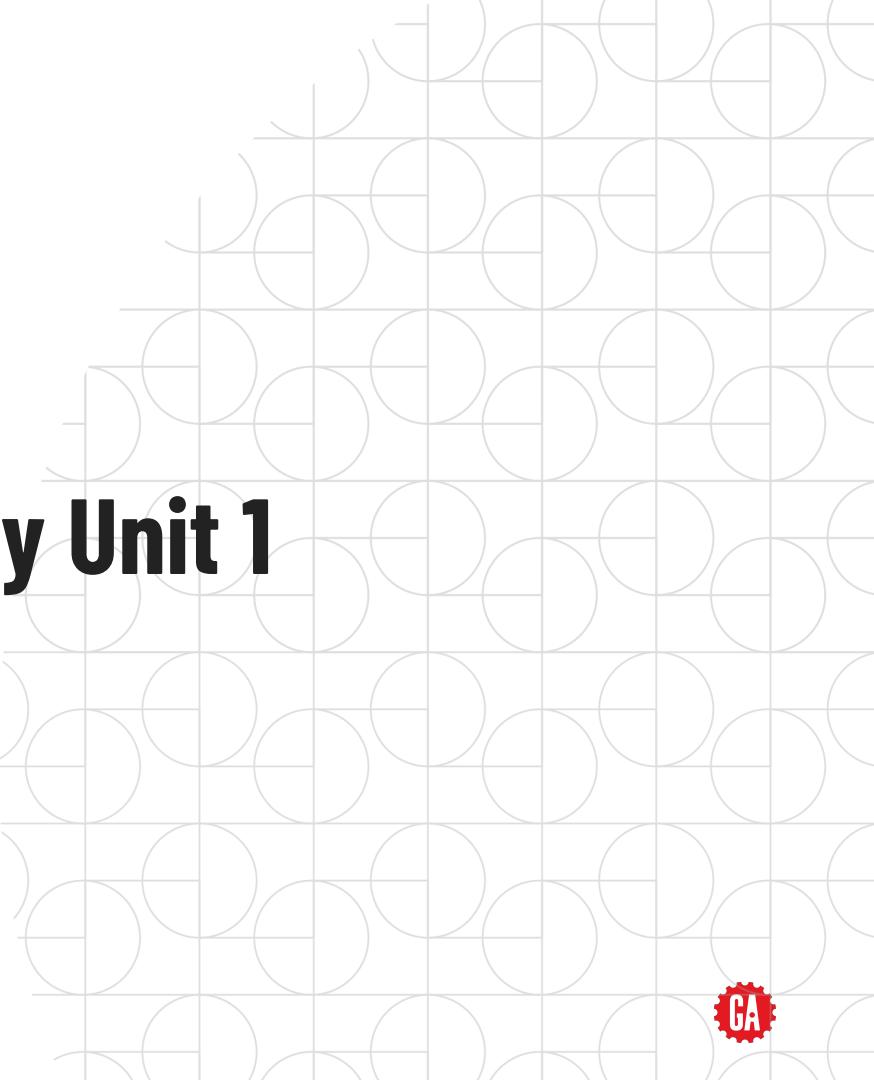
BREAK TIME



WELCOME

Saudi Digital Academy Unit 1

Front-End Fundamentals
Week 2 - Day 4



Unit 1 Front-End Fundamentals

Day 4 Schedule



| Schedule | Time | Wednesday |
|--------------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | Hacker Rank JS |
| Morning (Instruction / Lab) | 10:00 - 12:30 | <u>Intro to the DOM</u> |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | <u>DOM Events</u> |
| Homework | | <u>Pixart</u> |



BREAK TIME



WELCOME

Saudi Digital Academy Unit 1

Front-End Fundamentals
Week 2 - Day 5



Unit 1 Front-End Fundamentals

Day 5 Schedule



| Schedule | Time | Thursday |
|-------------------------------|---------------|--|
| Morning Activity | 9:00 - 10:00 | Hacker Rank JS |
| Morning (Instruction / Lab) | 10:00 - 12:30 | <u>DOM Events Lab</u> |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | <u>DOM Events Lab</u> |
| Homework | | <u>JS Dom Events Slideshow</u> |



BREAK TIME



WELCOME

Saudi Digital Academy Unit 2

Python Programming (Week 3)



Unit 2 Python Programming

Week 3 Schedule



| Week 3 | | | | | | |
|-------------------------------|---------------|-----------------------------------|--------------------------------------|--|--|--------------------------------------|
| Schedule | Time | Sunday | Monday | Tuesday | Wednesday | Thursday |
| Morning Activity | 9:00 - 10:00 | Hacker Rank JS | Hacker Rank JS | Hacker Rank Python | Hacker Rank Python | Hacker Rank Python |
| Morning (Instruction / Lab) | 10:00 - 12:30 | JS API AJAX Axios | JS Quote Machine Lab | Python Control Flow | Python Data Structures | Python Functions |
| Lunch 12:30 - 1:30 | | | | | | |
| Instructor Support | 1:30 – 2:30 | HW Review | HW Review | HW Review | HW Review | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | JS Giphy API Lab | Intro to Python | Control Flow in Python Lab | Python Data Structures Lab | Python Functions Lab |
| Homework | | Finish JS Giphy API Lab | Finish JS Quote Machine Lab | Finish Control Flow in Python Lab | Finish Python Data Structures Lab | Finish Python Functions Lab |

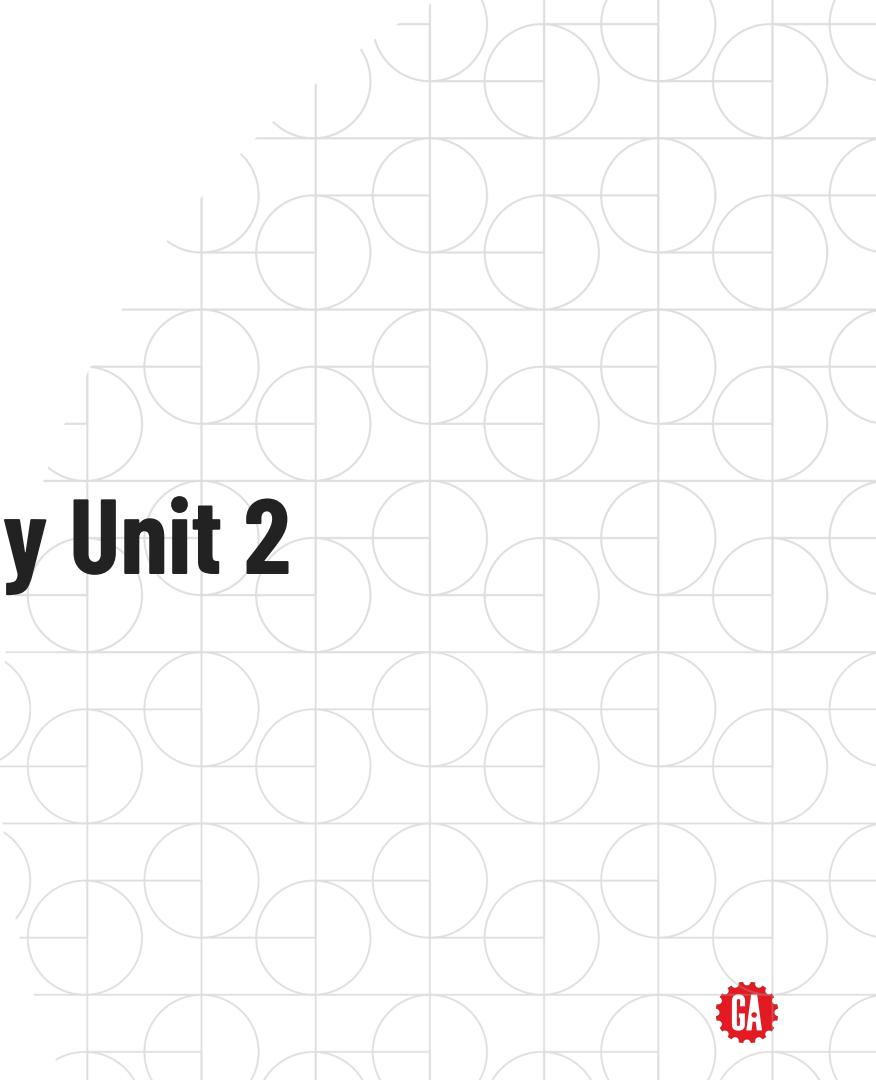
| Color Key |
|--------------------|
| Preparation |
| Morning Activity |
| Instruction |
| Instructor Support |
| Application / Lab |
| Homework |
| Capstone |



WELCOME

Saudi Digital Academy Unit 2

Python Programming
Week 3 - Day 1



Unit 2 Python Programming

Day 1 Schedule



| Schedule | Time | Sunday |
|----------------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | Hacker Rank JS |
| Morning (Instruction / Lab) | 10:00 - 12:30 | JS API AJAX Axios |
| 12:30 - 1:30 Lunch | | |
| Instructor Support | 1:30 – 2:30 | Instructor AMA |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | JS Giphy API Lab |
| Homework | | Finish JS Giphy API Lab |



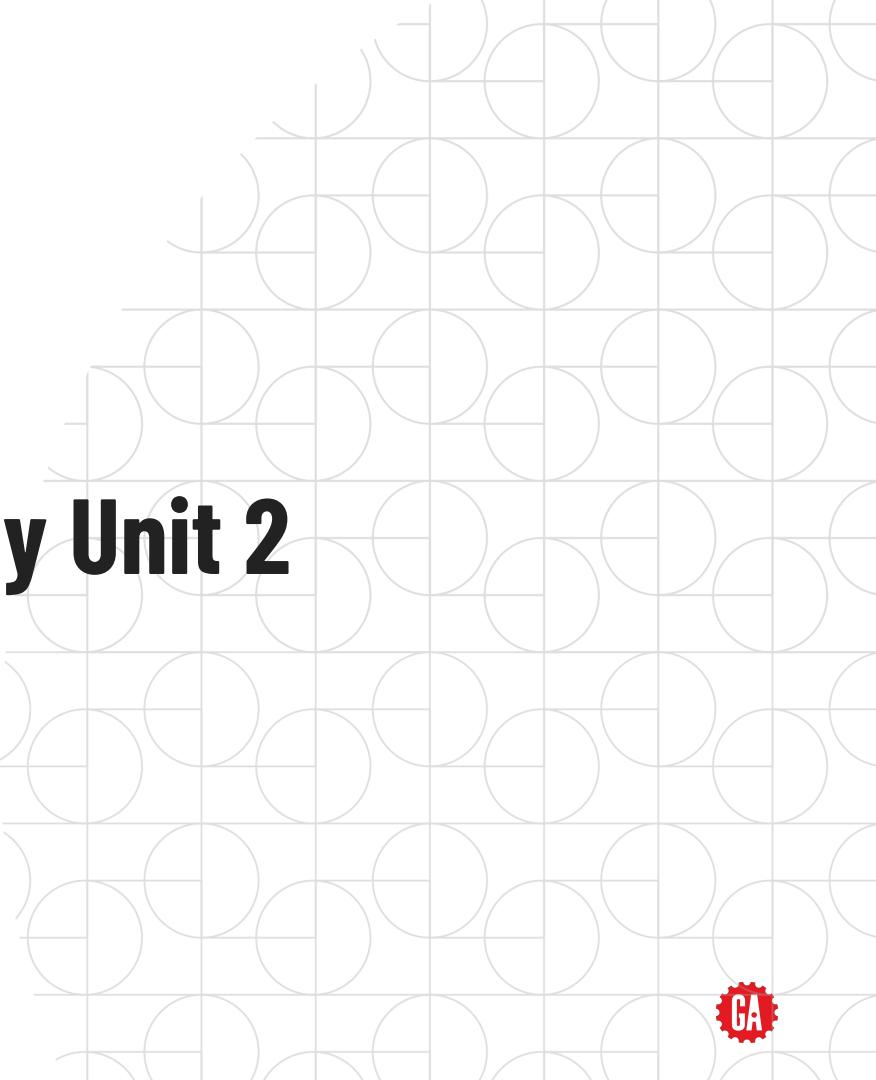
BREAK TIME



WELCOME

Saudi Digital Academy Unit 2

Python Programming
Week 3 - Day 2



Unit 2 Python Programming

Day 2 Schedule



| Schedule | Time | Monday |
|----------------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | Hacker Rank JS |
| Morning (Instruction / Lab) | 10:00 - 12:30 | JS Quote Machine Lab |
| 12:30 - 1:30 Lunch | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Intro to Python |
| Homework | | Finish JS Quote Machine Lab |



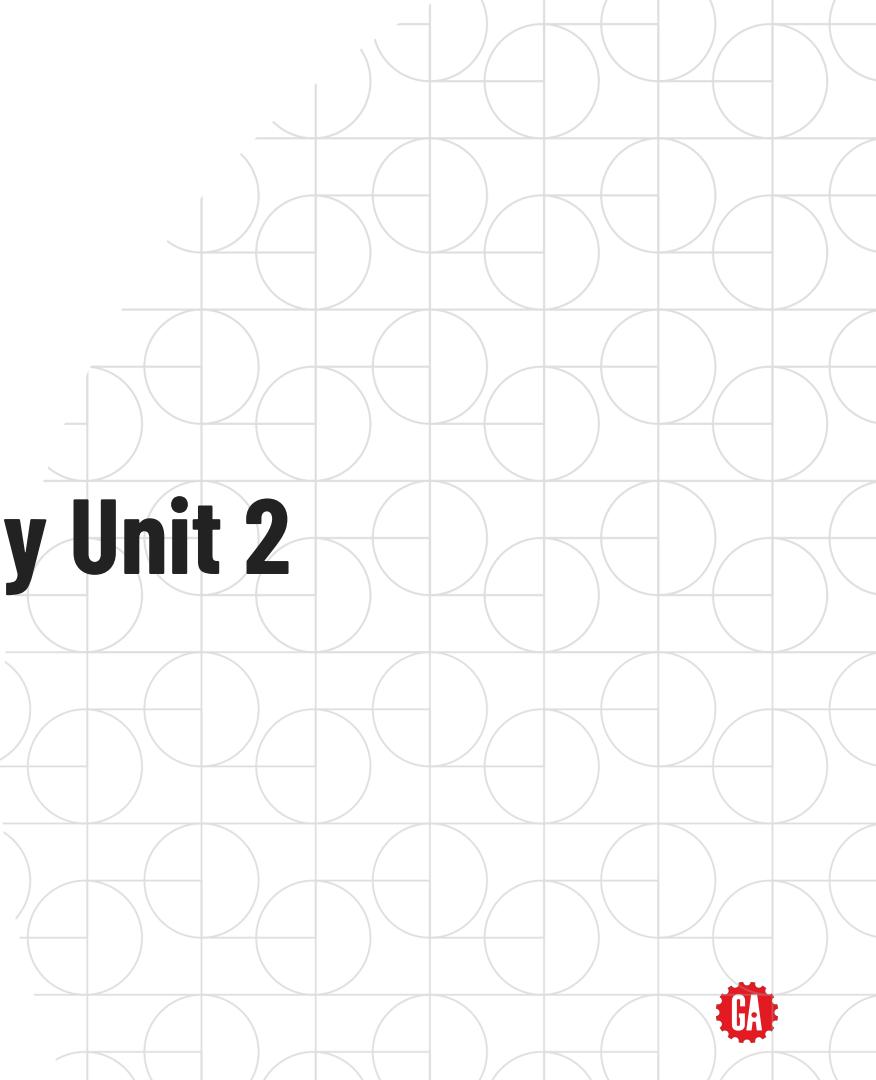
BREAK TIME



WELCOME

Saudi Digital Academy Unit 2

Python Programming
Week 3 - Day 3



Unit 2 Python Programming

Day 3 Schedule



| Schedule | Time | Tuesday |
|----------------------------------|---------------|--|
| Morning Activity | 9:00 - 10:00 | Hacker Rank Python |
| Morning (Instruction / Lab) | 10:00 - 12:30 | <u>Python Control Flow</u> |
| 12:30 - 1:30 Lunch | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | <u>Control Flow in Python Lab</u> |
| Homework | | <u>Finish Control Flow in Python Lab</u> |



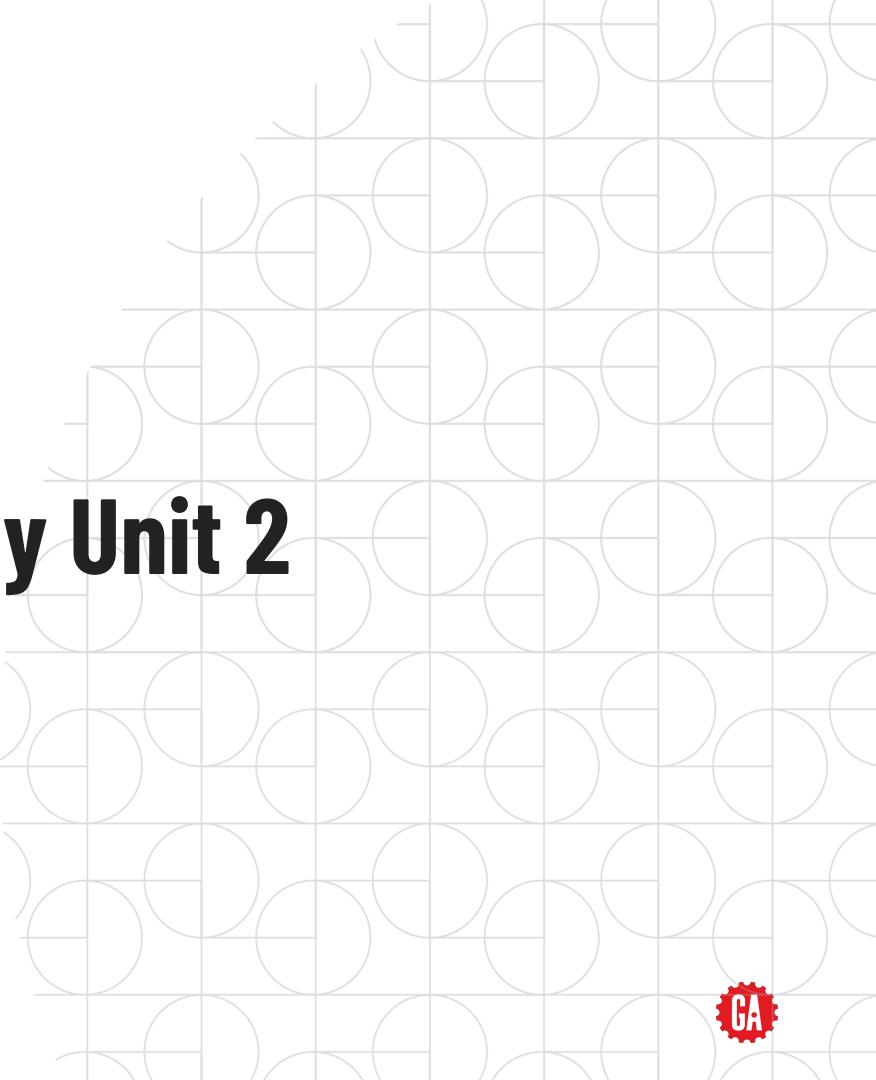
BREAK TIME



WELCOME

Saudi Digital Academy Unit 2

Python Programming
Week 3 - Day 4



Unit 2 Python Programming

Day 4 Schedule



| Schedule | Time | Tuesday |
|----------------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | Hacker Rank Python |
| Morning (Instruction / Lab) | 10:00 - 12:30 | Python Data Structures |
| 12:30 - 1:30 Lunch | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Python Data Structures Lab |
| Homework | | Finish Python Data Structures Lab |



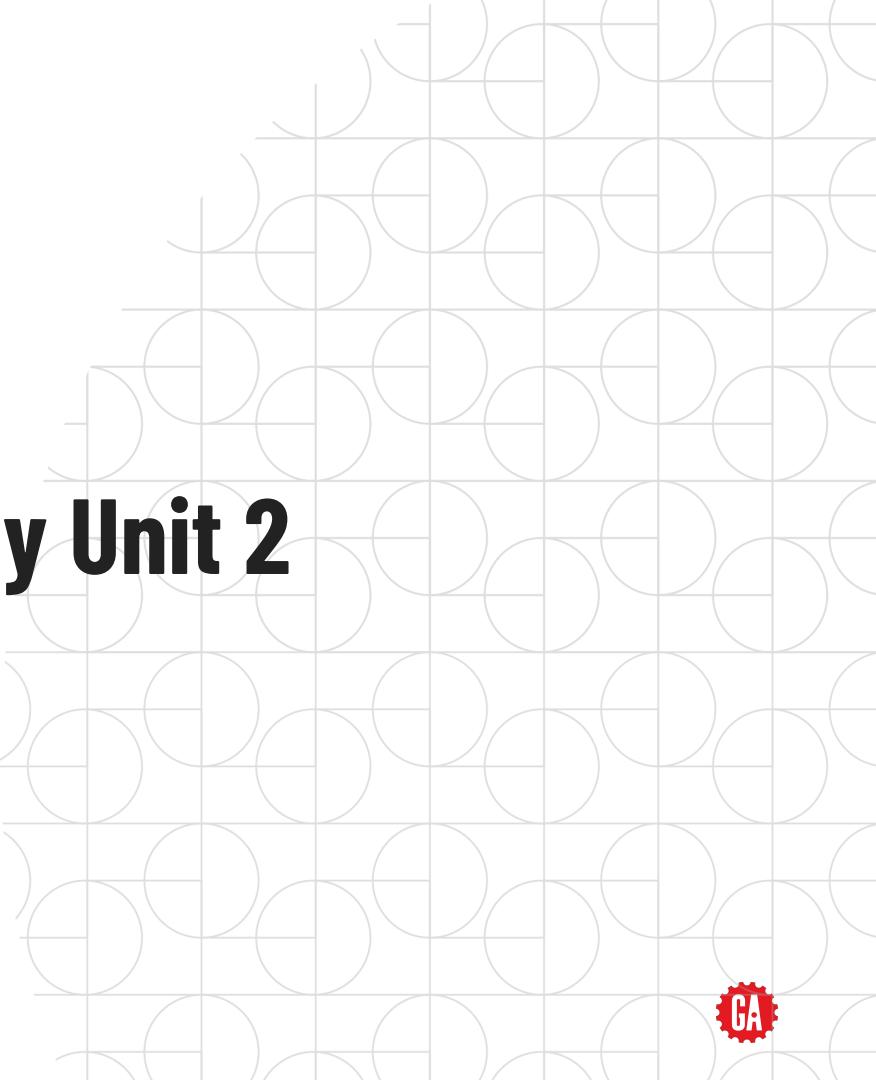
BREAK TIME



WELCOME

Saudi Digital Academy Unit 2

Python Programming
Week 3 - Day 5



Unit 2 Python Programming

Day 5 Schedule



| Schedule | Time | Thursday |
|-----------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | Hacker Rank Python |
| Morning (Instruction / Lab) | 10:00 - 12:30 | Python Functions |
| 12:30 - 1:30 Lunch | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Morning (Instruction / Lab) | 2:30 – 5:00 | Python Functions Lab |
| Homework | | Finish Python Functions Lab |



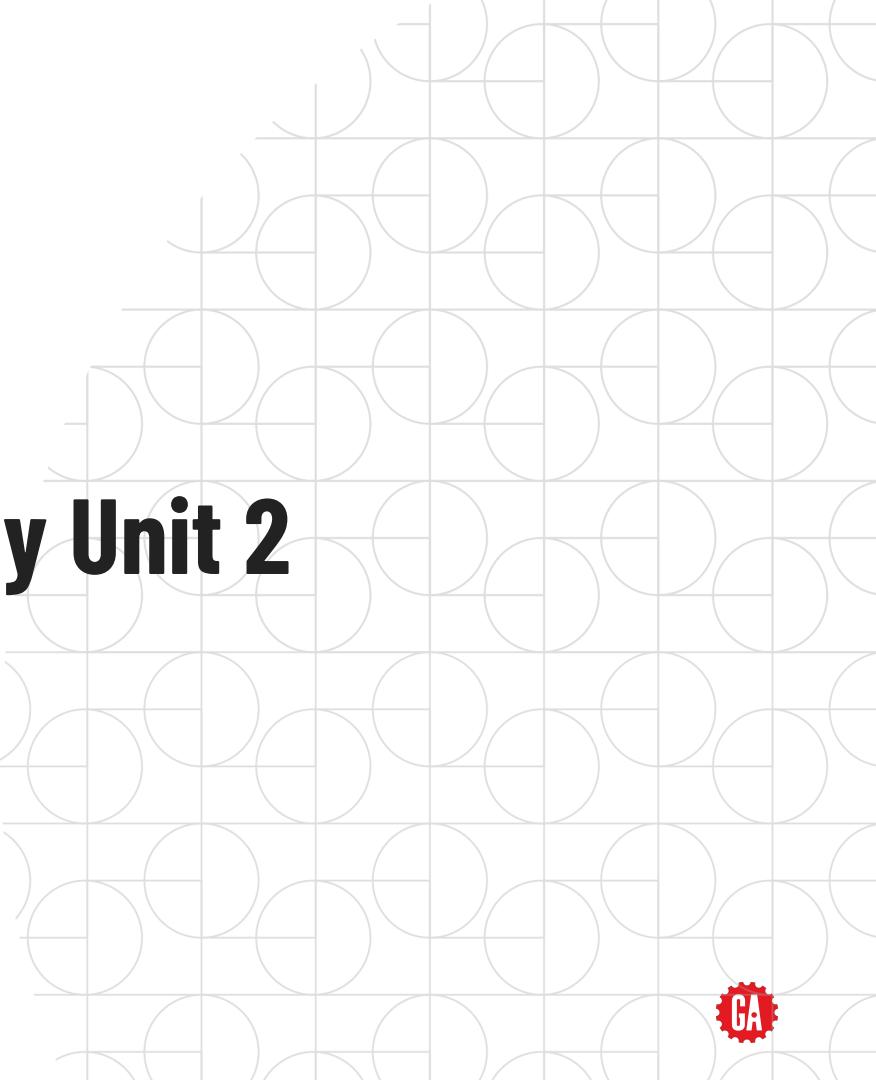
BREAK TIME



WELCOME

Saudi Digital Academy Unit 2

Python Programming (Week 4)



Unit 2 Python Programming

Week 4 Schedule



| Week Four | | | | | | |
|-------------------------------|---------------|---|--|--|--------------------------------|--------------------------------|
| Schedule | Time | Sunday | Monday | Tuesday | Wednesday | Thursday |
| Morning Activity | 9:00 - 10:00 | Hacker Rank Python | Hacker Rank Python | Hacker Rank Python | Python Project | Python Project |
| Morning (Instruction / Lab) | 10:00 - 12:30 | Python Classes | Python Exception Handling | Python Advanced OOP | | |
| Lunch 12:30 - 1:30 | | | | | | |
| Instructor Support | 1:30 – 2:30 | HW Review | HW Review | HW Review | HW Review | Python Project |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Python Classes Lab | Python Exception Handling Lab | Python Advanced OOP Lab | Python Project | |
| Homework | | Finish Python Classes Lab | Finish Python Exception Handling Lab | Finish Python Advanced OOP Lab | | |

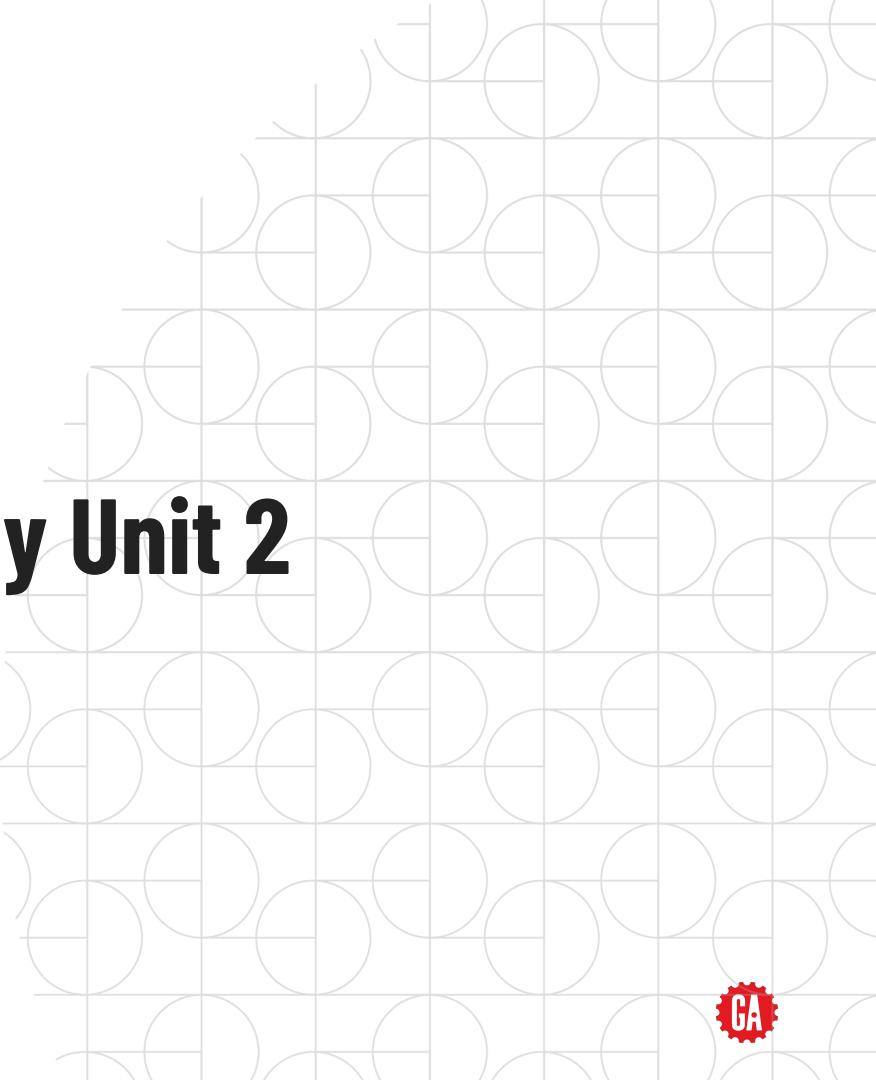
| Color Key |
|--------------------|
| Preparation |
| Morning Activity |
| Instruction |
| Instructor Support |
| Application / Lab |
| Homework |
| Capstone |



WELCOME

Saudi Digital Academy Unit 2

Python Programming
Week 4 - Day 1



Unit 2 Python Programming

Day 1 Schedule



| Schedule | Time | Sunday |
|----------------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | Hacker Rank Python |
| Morning (Instruction / Lab) | 10:00 - 12:30 | Python Classes |
| 12:30 - 1:30 Lunch | | |
| Instructor Support | 1:30 – 2:30 | Instructor AMA |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Python Classes Lab |
| Homework | | Finish Python Classes Lab |



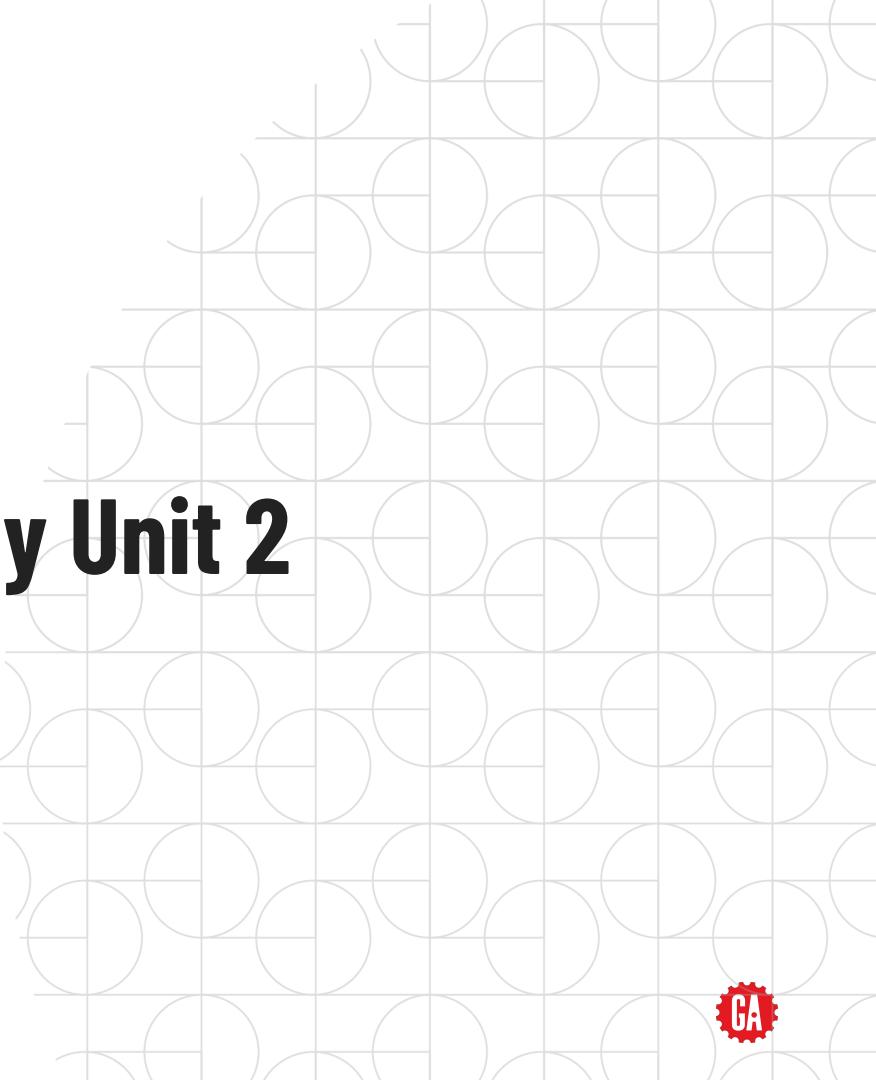
BREAK TIME



WELCOME

Saudi Digital Academy Unit 2

Python Programming
Week 4 - Day 2



Unit 2 Python Programming

Day 2 Schedule



| Schedule | Time | Monday |
|----------------------------------|---------------|--|
| Morning Activity | 9:00 - 10:00 | Hacker Rank Python |
| Morning (Instruction / Lab) | 10:00 - 12:30 | Python Exception Handling |
| 12:30 - 1:30 Lunch | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Python Exception Handling Lab |
| Homework | | Finish Python Exception Handling Lab |



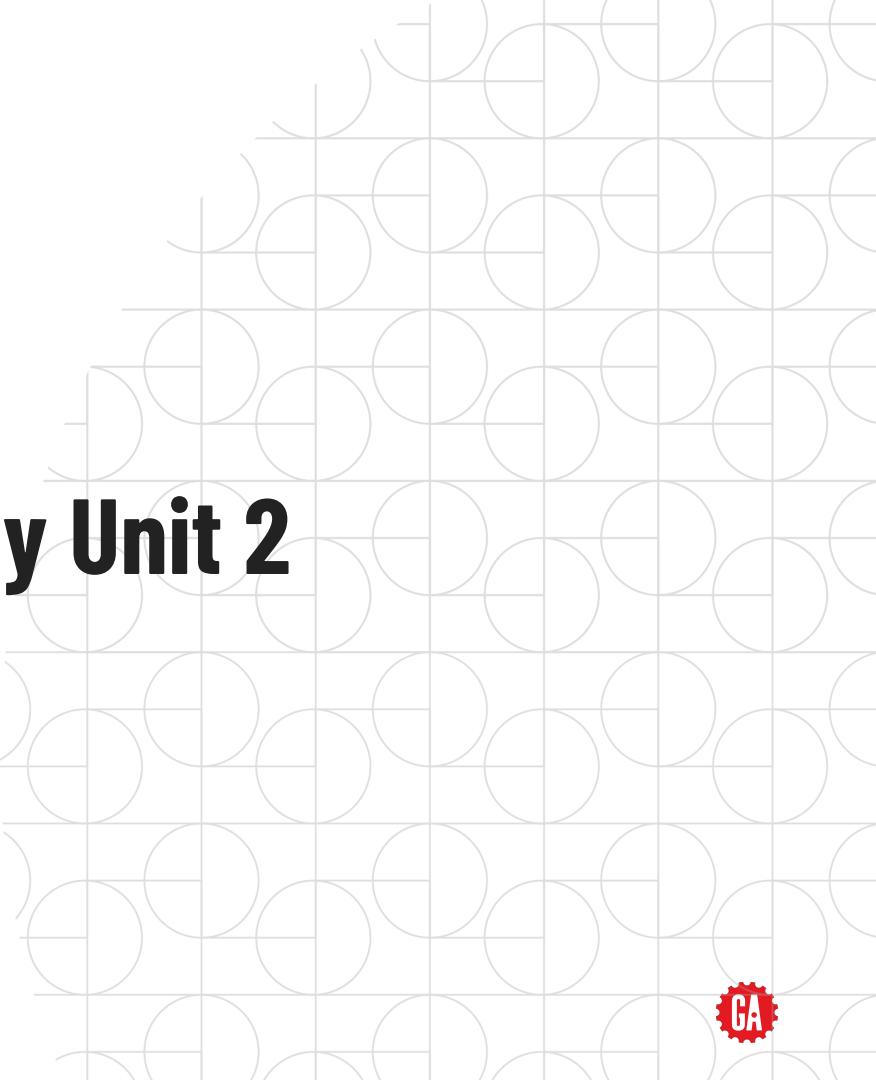
BREAK TIME



WELCOME

Saudi Digital Academy Unit 2

Python Programming
Week 4 - Day 3



Unit 2 Python Programming

Day 3 Schedule



| Schedule | Time | Tuesday |
|----------------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | Hacker Rank Python |
| Morning (Instruction / Lab) | 10:00 - 12:30 | Python Advanced OOP |
| 12:30 - 1:30 Lunch | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Python Advanced OOP Lab |
| Homework | | <u>Finish Python Advanced OOP Lab</u> |



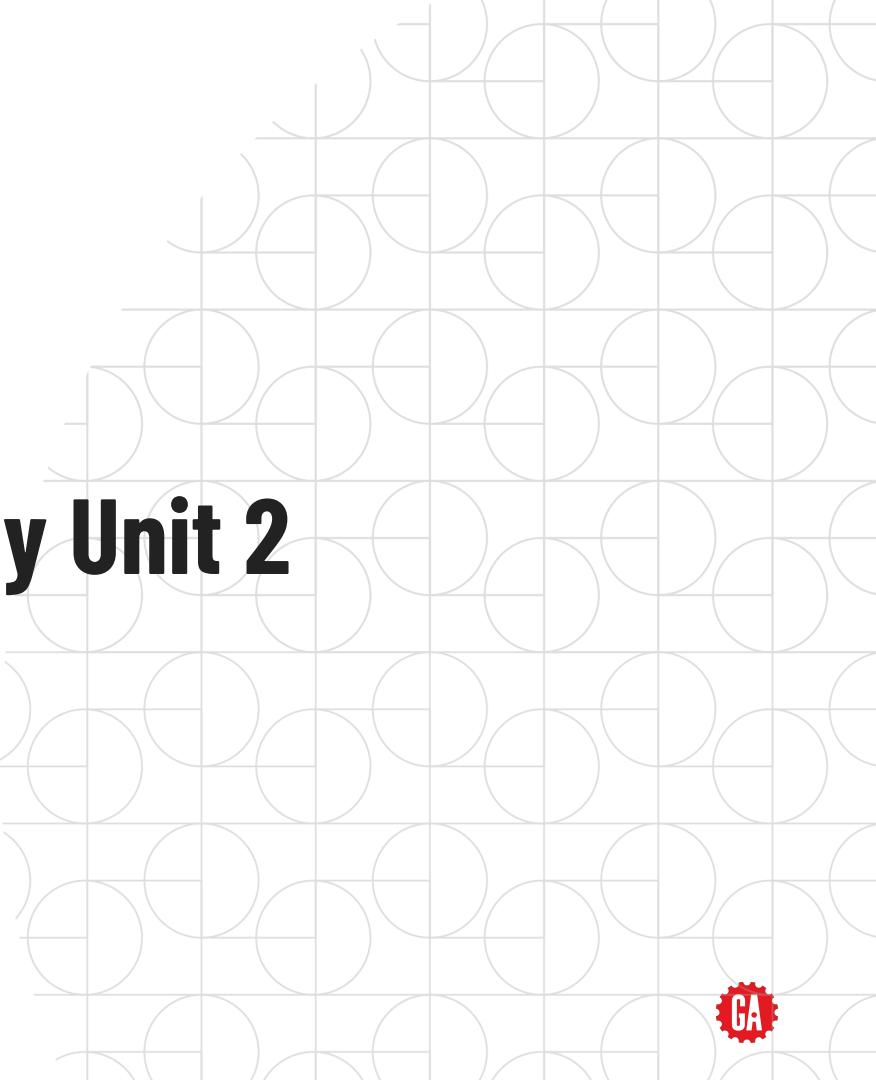
BREAK TIME



WELCOME

Saudi Digital Academy Unit 2

Python Programming
Week 4 - Day 4



Unit 2 Python Programming

Day 4 Schedule



| Schedule | Time | Wednesday |
|----------------------------------|---------------|--------------------------------|
| Morning Activity | 9:00 - 10:00 | |
| Morning (Instruction / Lab) | 10:00 - 12:30 | Python Project |
| 12:30 - 1:30 Lunch | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Python Project |
| Homework | | |



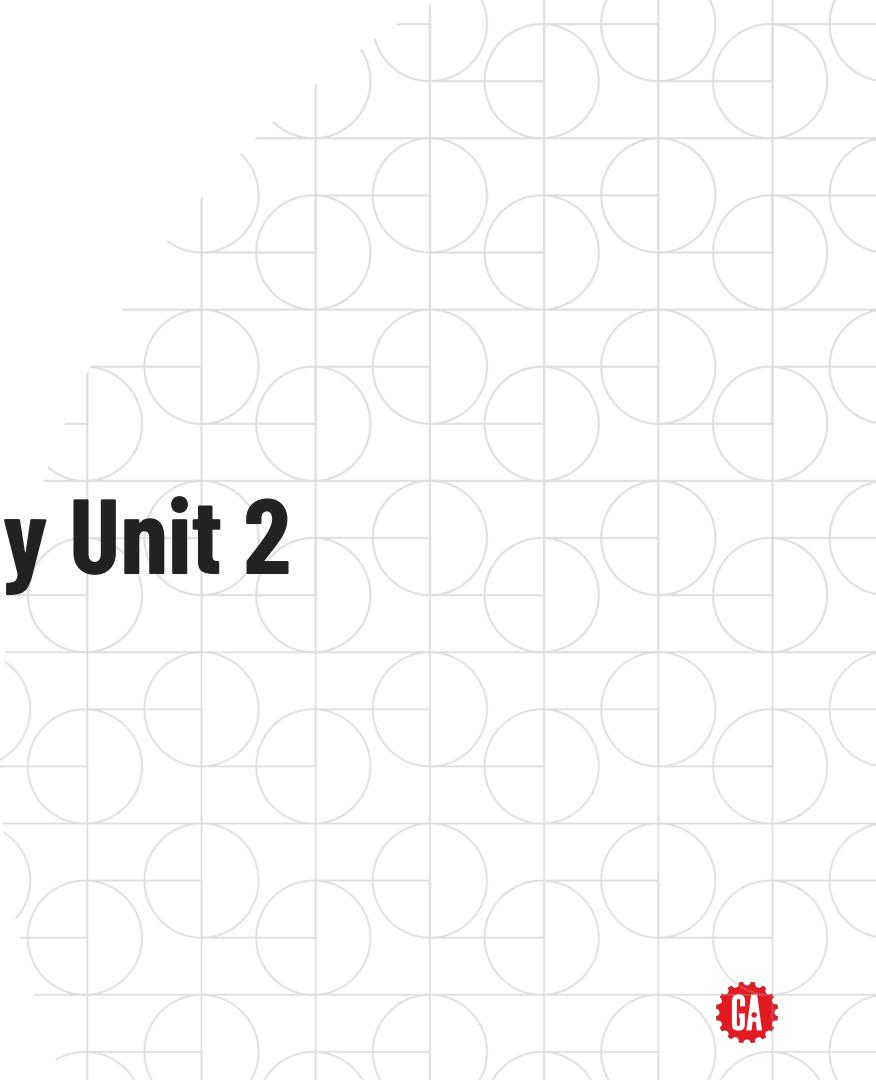
BREAK TIME



WELCOME

Saudi Digital Academy Unit 2

Python Programming
Week 4 - Day 5



Unit 2 Python Programming

Day 5 Schedule



| Schedule | Time | Thursday |
|----------------------------------|---------------|--------------------------------|
| Morning Activity | 9:00 - 10:00 | |
| Morning (Instruction / Lab) | 10:00 - 12:30 | Python Project |
| 12:30 - 1:30 Lunch | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Python Project |
| Homework | | |



BREAK TIME



WELCOME

Saudi Digital Academy Unit 3

Intro to SQL and Django Web Framework (Week 5)



Unit 3 Intro to SQL & Django Web Framework

Week 5 Schedule



| Week Five | | | | | | |
|-------------------------------|---------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--|
| Schedule | Time | Sunday | Monday | Tuesday | Wednesday | Thursday |
| Morning Activity | 9:00 - 10:00 | Python Project | Python Project | Python Project | Intro to SQL | SQL Relational Mapping |
| Morning (Instruction / Lab) | 10:00 - 12:30 | | | | | |
| Lunch 12:30 - 1:30 | | | | | | |
| Instructor Support | 1:30 – 2:30 | Python Project | Python Project | Python Project | SQL Lab | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | | | | | SQL Joins Lab |
| Homework | | | | | Finish SQL Lab | Finish SQL Joins Lab |

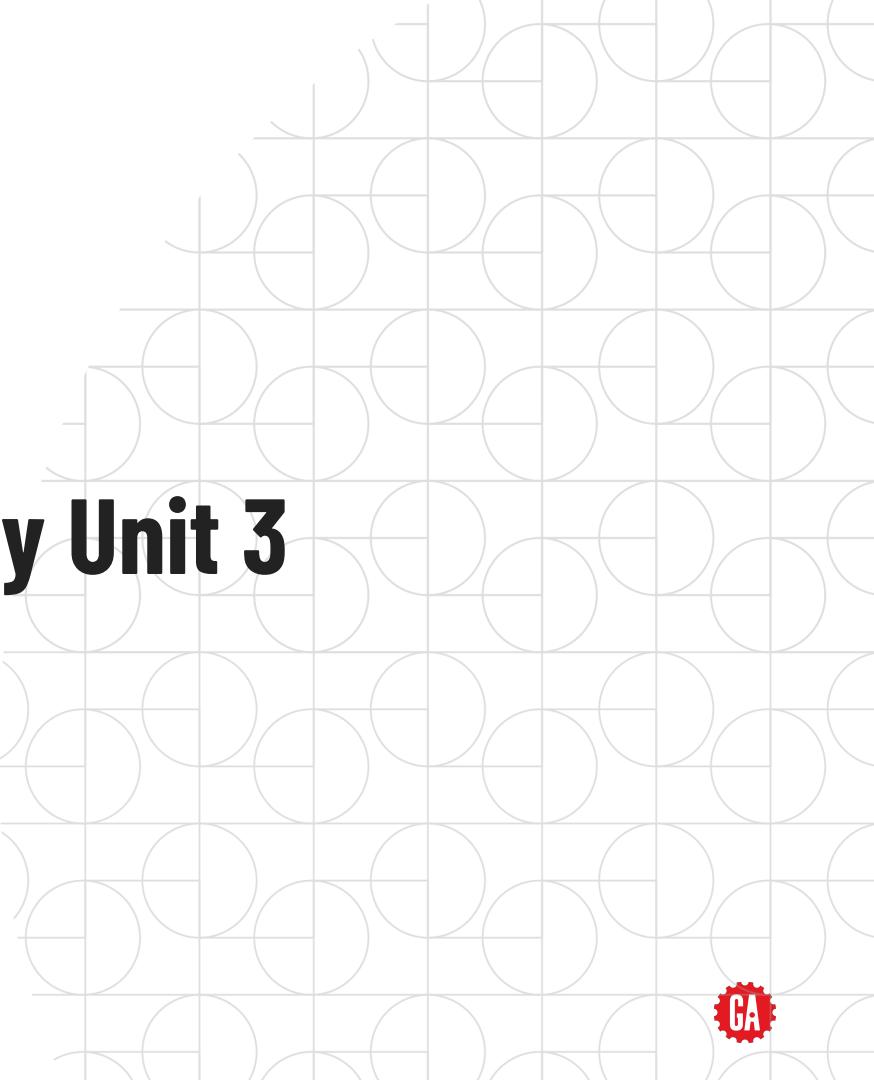
| Color Key |
|--------------------|
| Preparation |
| Morning Activity |
| Instruction |
| Instructor Support |
| Application / Lab |
| Homework |
| Capstone |



WELCOME

Saudi Digital Academy Unit 3

Intro to SQL & Django Web Framework
Week 5 - Day 1



Unit 3 Intro to SQL & Django Web Framework

Day 1 Schedule



| Schedule | Time | Sunday |
|----------------------------------|---------------|--------------------------------|
| Morning Activity | 9:00 - 10:00 | |
| Morning (Instruction / Lab) | 10:00 - 12:30 | Python Project |
| 12:30 - 1:30 Lunch | | |
| Instructor Support | 1:30 – 2:30 | |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Python Project |
| Homework | | |



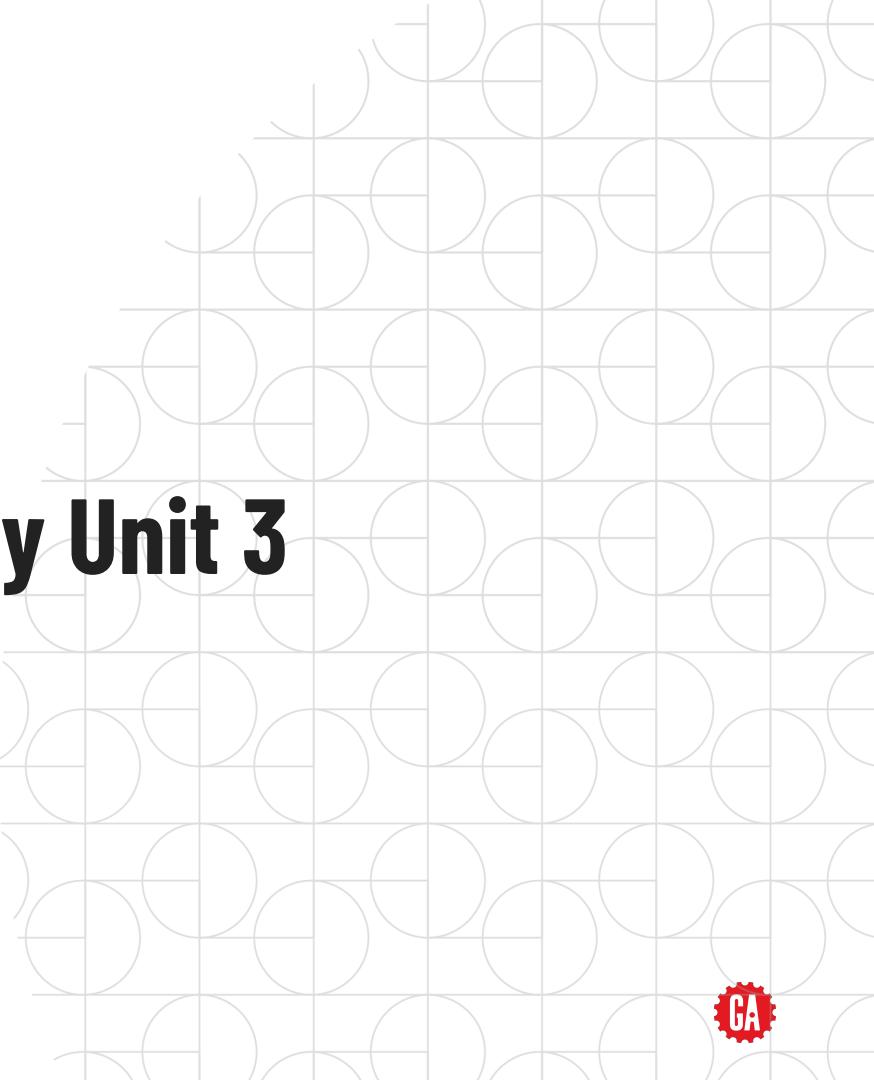
BREAK TIME



WELCOME

Saudi Digital Academy Unit 3

Intro to SQL & Django Web Framework
Week 5 - Day 2



Unit 3 Intro to SQL & Django Web Framework

Day 2 Schedule



| Schedule | Time | Monday |
|----------------------------------|---------------|-----------------------|
| Morning Activity | 9:00 - 10:00 | |
| Morning (Instruction / Lab) | 10:00 - 12:30 | <u>Python Project</u> |
| 12:30 - 1:30 Lunch | | |
| Instructor Support | 1:30 – 2:30 | |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | <u>Python Project</u> |
| Homework | | |



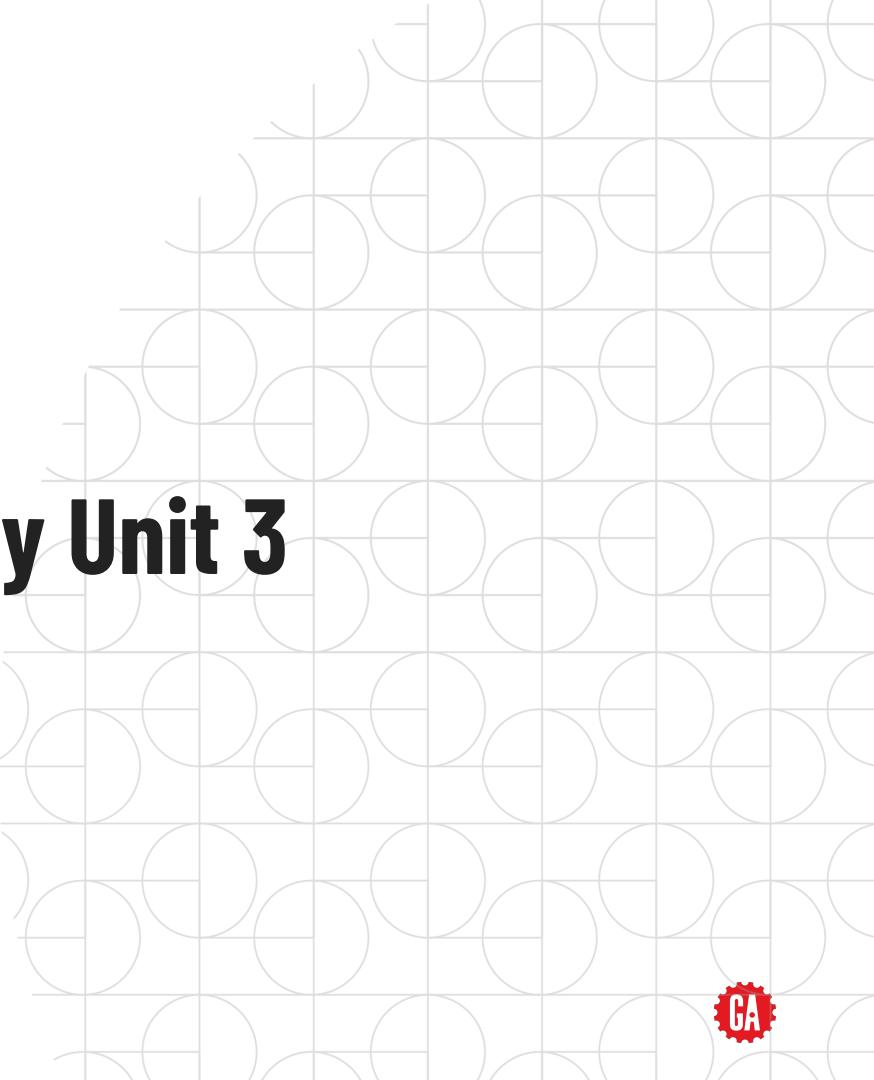
BREAK TIME



WELCOME

Saudi Digital Academy Unit 3

Intro to SQL & Django Web Framework
Week 5 - Day 3



Unit 3 Intro to SQL & Django Web Framework

Day 3 Schedule



| Schedule | Time | Tuesday |
|----------------------------------|---------------|--------------------------------|
| Morning Activity | 9:00 - 10:00 | |
| Morning (Instruction / Lab) | 10:00 - 12:30 | Python Project |
| 12:30 - 1:30 Lunch | | |
| Instructor Support | 1:30 – 2:30 | |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Python Project |
| Homework | | |



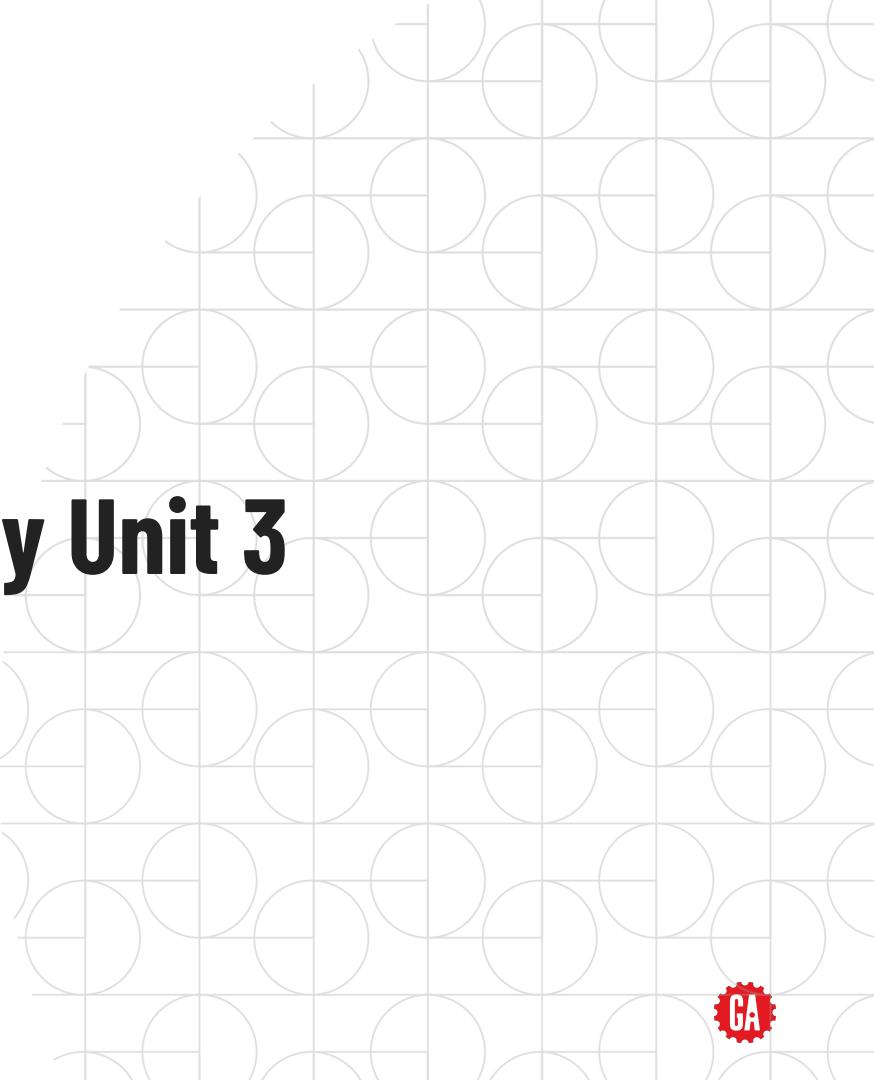
BREAK TIME



WELCOME

Saudi Digital Academy Unit 3

Intro to SQL & Django Web Framework
Week 5 - Day 4



Unit 3 Intro to SQL & Django Web Framework

Day 4 Schedule



| Schedule | Time | Wednesday |
|----------------------------------|---------------|--------------------------------|
| Morning Activity | 9:00 - 10:00 | |
| Morning (Instruction / Lab) | 10:00 - 12:30 | Intro to SQL |
| 12:30 - 1:30 Lunch | | |
| Instructor Support | 1:30 – 2:30 | |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | SQL Lab |
| Homework | | Finish SQL Lab |



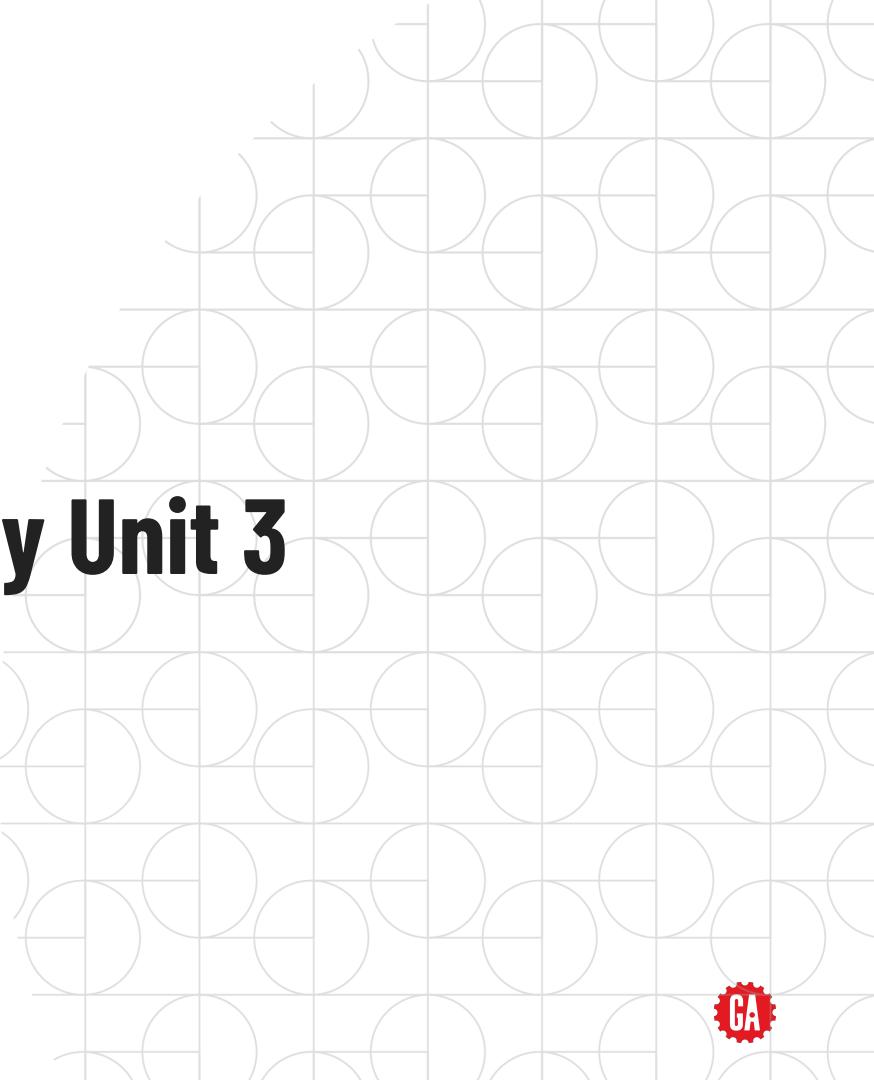
BREAK TIME



WELCOME

Saudi Digital Academy Unit 3

Intro to SQL & Django Web Framework
Week 5 - Day 5



Unit 3 Intro to SQL & Django Web Framework

Day 5 Schedule



| Schedule | Time | Thursday |
|----------------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | |
| Morning (Instruction / Lab) | 10:00 - 12:30 | <u>SQL Relational Mapping</u> |
| 12:30 - 1:30 Lunch | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | <u>SQL Joins Lab</u> |
| Homework | | <u>Finish SQL Joins Lab</u> |



BREAK TIME



WELCOME

Saudi Digital Academy Unit 3

Intro to SQL and Django Web Framework (Week 6)



Unit 3 Intro to SQL & Django Web Framework

Week 6 Schedule



| Week Six | | | | | | |
|-------------------------------|---------------|---|------------------------------|---|---|--------------------------------|
| Schedule | Time | Sunday | Monday | Tuesday | Wednesday | Thursday |
| Morning Activity | 9:00 - 10:00 | | Leet Code | Leet Code | | |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Hacker Rank SQL | SQL Library Lab | Intro to Django Django project setup Concepts | Django Class-based Views | Django M:N Models |
| Lunch 12:30 - 1:30 | | | | | | |
| Instructor Support | 1:30 – 2:30 | HW Review | HW Review | Django URLs and Views | HW Review | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Relational Database Modelling Lab | SQL Ladder Challenges | Django Models | Django 1:N Models Adding a Third Model | Authentication in Django |
| Homework | | Finish Relational Database Modeling Lab | Finish SQL Ladder Challenges | Basic CRUD & One-to-Many Relationships | Many-to-Many Relationships | Authentication & Authorization |

| Color Key |
|--------------------|
| Preparation |
| Morning Activity |
| Instruction |
| Instructor Support |
| Application / Lab |
| Homework |
| Capstone |



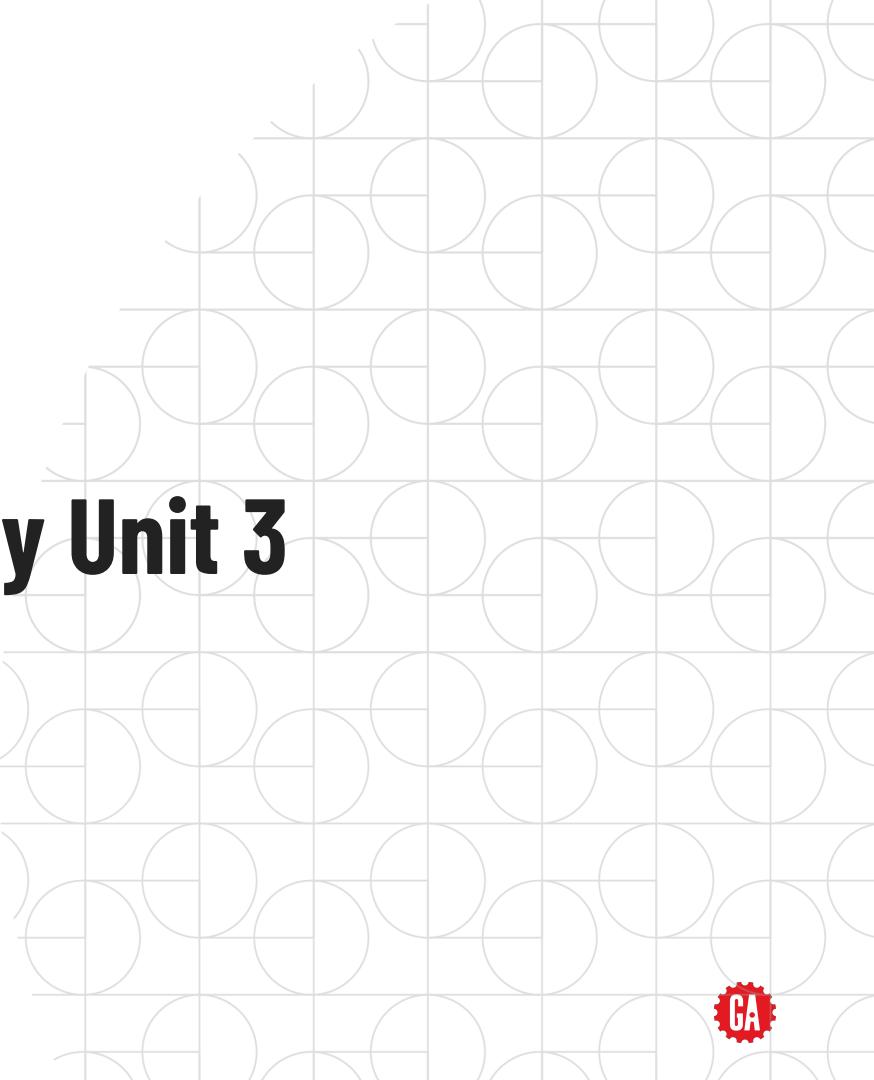
BREAK TIME



WELCOME

Saudi Digital Academy Unit 3

Intro to SQL & Django Web Framework
Week 6 - Day 1



Unit 3 Intro to SQL & Django Web Framework

Day 1 Schedule



| Schedule | Time | Sunday |
|----------------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Hacker Rank SQL |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Relational Database Modelling Lab |
| Homework | | Finish Relational Database Modeling Lab |



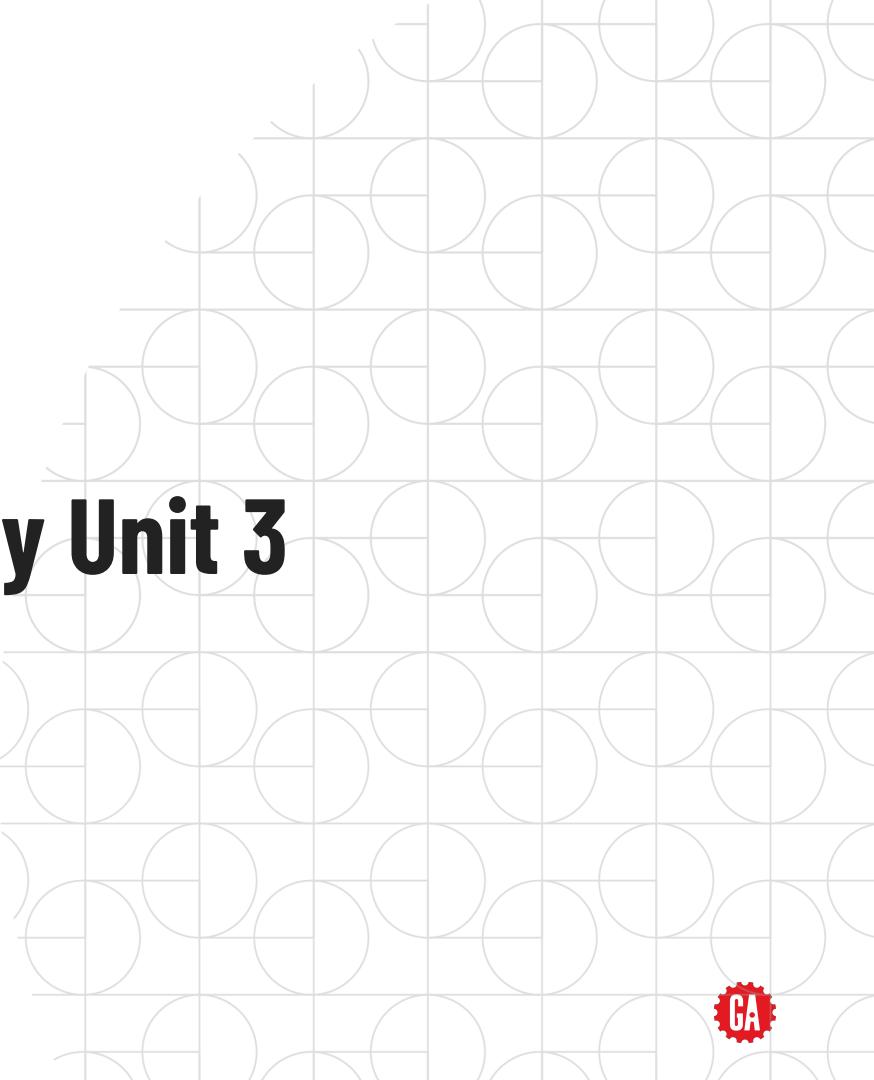
BREAK TIME



WELCOME

Saudi Digital Academy Unit 3

Intro to SQL & Django Web Framework
Week 6 - Day 2



Unit 3 Intro to SQL & Django Web Framework

Day 2 Schedule



| Schedule | Time | Monday |
|-------------------------------|---------------|---------------------------------------|
| Morning Activity | 9:00 - 10:00 | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | SQL Library Lab |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | SQL Ladder Challenges |
| Homework | | Finish SQL Ladder Challenges |



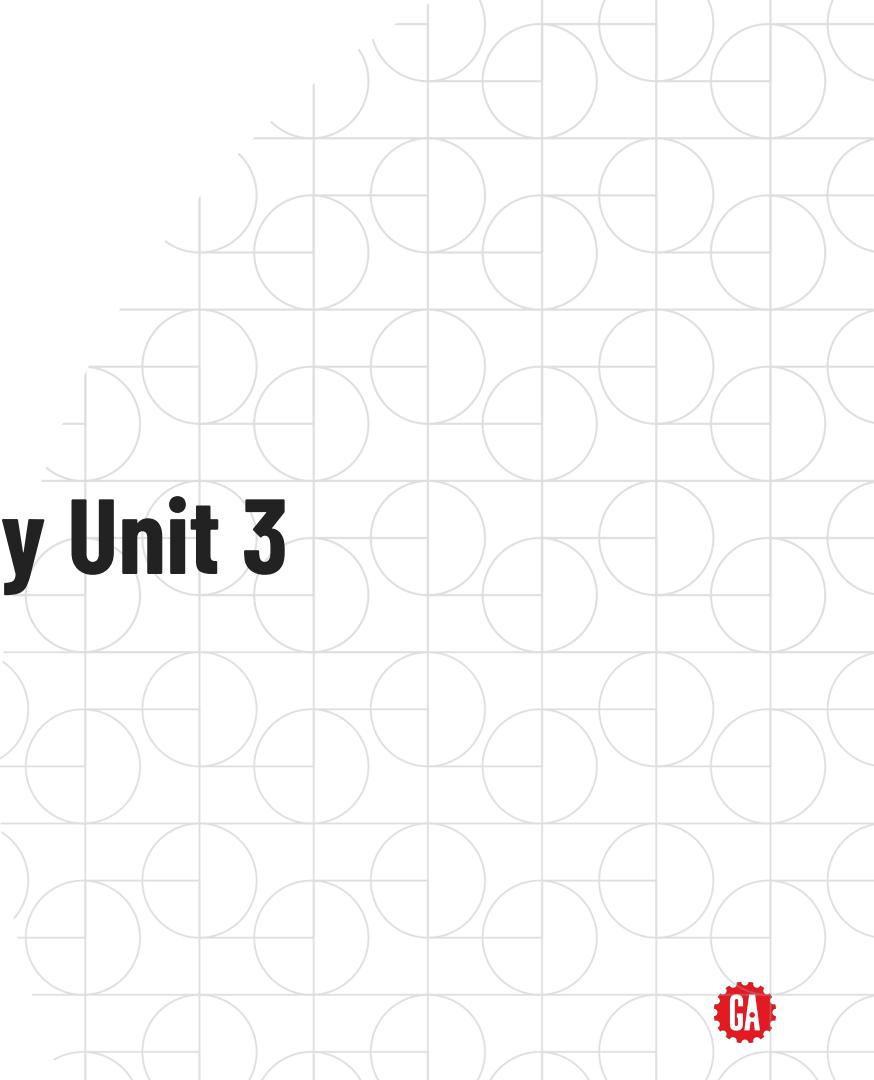
BREAK TIME



WELCOME

Saudi Digital Academy Unit 3

Intro to SQL & Django Web Framework
Week 6 - Day 3



Unit 3 Intro to SQL & Django Web Framework

Day 3 Schedule



| Schedule | Time | Tuesday |
|-------------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Intro to Django Django project setup Concepts |
| | | Lunch 12:30 - 1:30 |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Django URLs and Views Django Models |
| Homework | | Basic CRUD & One-to-Many Relationships |



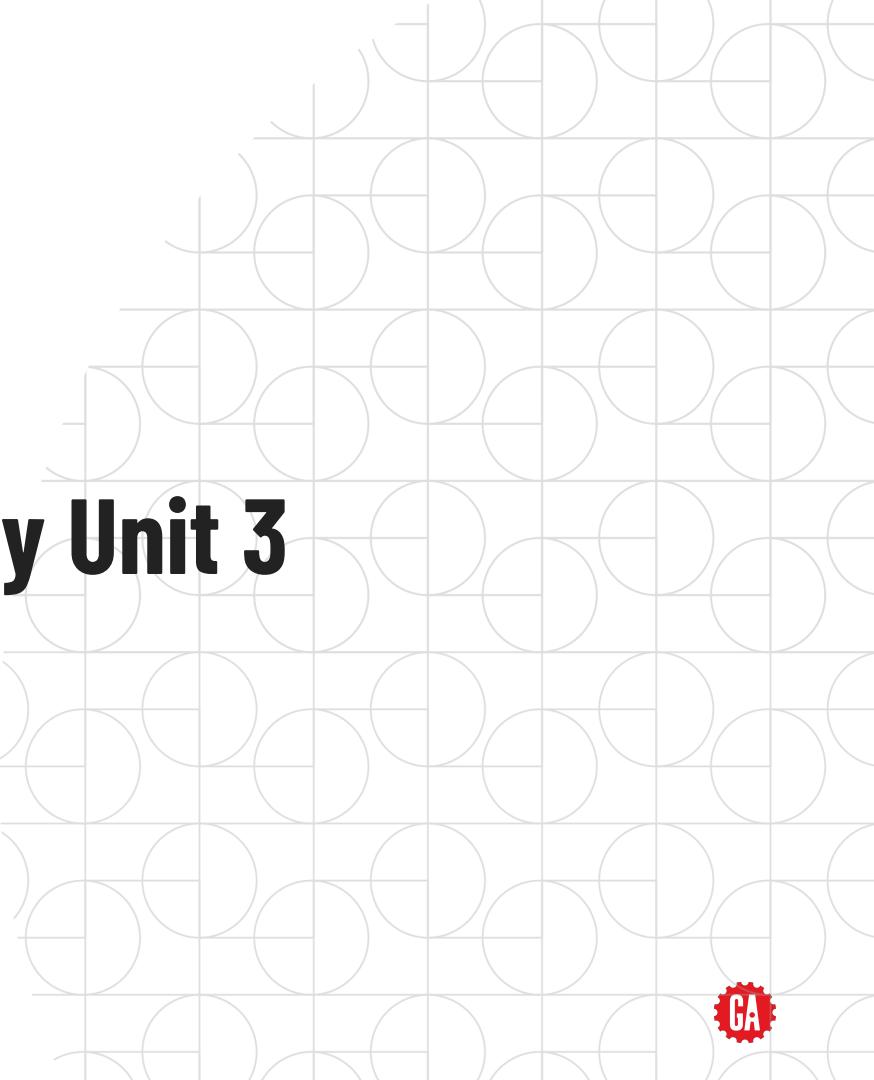
BREAK TIME



WELCOME

Saudi Digital Academy Unit 3

Intro to SQL & Django Web Framework
Week 6 - Day 4



Unit 3 Intro to SQL & Django Web Framework

Day 4 Schedule



| Schedule | Time | Thursday |
|----------------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Django Class-based Views |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Django 1:N Models Adding a Third Model |
| Homework | | Many-to-Many Relationships |



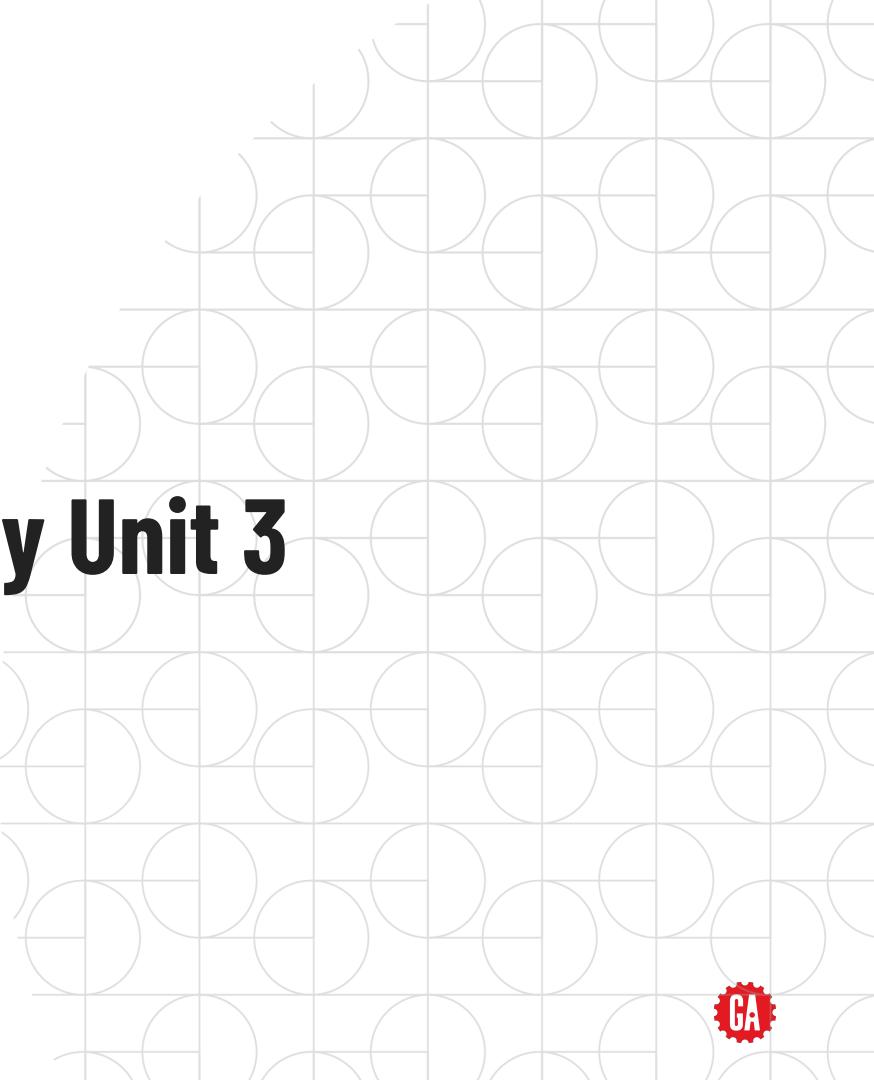
BREAK TIME



WELCOME

Saudi Digital Academy Unit 3

Intro to SQL & Django Web Framework
Week 6 - Day 5



Unit 3 Intro to SQL & Django Web Framework

Day 5 Schedule



| Schedule | Time | Thursday |
|----------------------------------|---------------|--|
| Morning Activity | 9:00 - 10:00 | |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Django M:N Models |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Authentication in Django |
| Homework | | Authentication & Authorization |



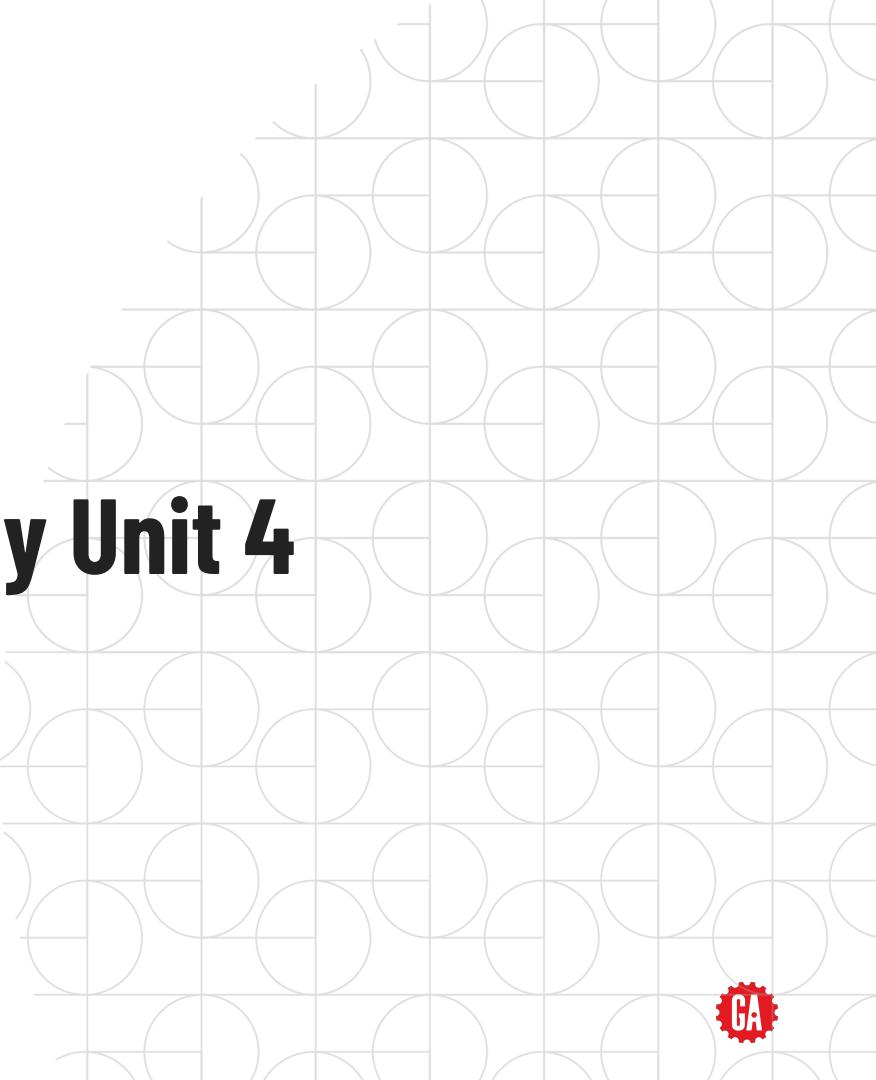
BREAK TIME



WELCOME

Saudi Digital Academy Unit 4

Django Rest API / Testing (Week 7)



Unit 4 Django Rest API / Testing

Week 7 Schedule



| Week Seven | | | | | | |
|-------------------------------|---------------|--|---------------------------------|-------------------------------------|---------------------------|-----------------------|
| Schedule | Time | Sunday | Monday | Tuesday | Wednesday | Thursday |
| Morning Activity | 9:00 - 10:00 | Leet Code | Leet Code | Leet Code | Leet Code | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Django Setup,Urls, Views | Django 1:N Models Django Rep | Django Authentication | Django Application Review | Python Unit Testing I |
| Lunch 12:30 - 1:30 | | | | | | |
| Instructor Support | 1:30 – 2:30 | HW Review | HW Review | HW Review | HW Review | Python Testing Lab I |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Intro to Django Models and Serializers | Django M:N models | Django Authentication | Django Application Review | |
| Homework | | Finish Django Setup, URLs, Views, and | Many-to-Many Relationships with | Authentication & Authorization with | | |

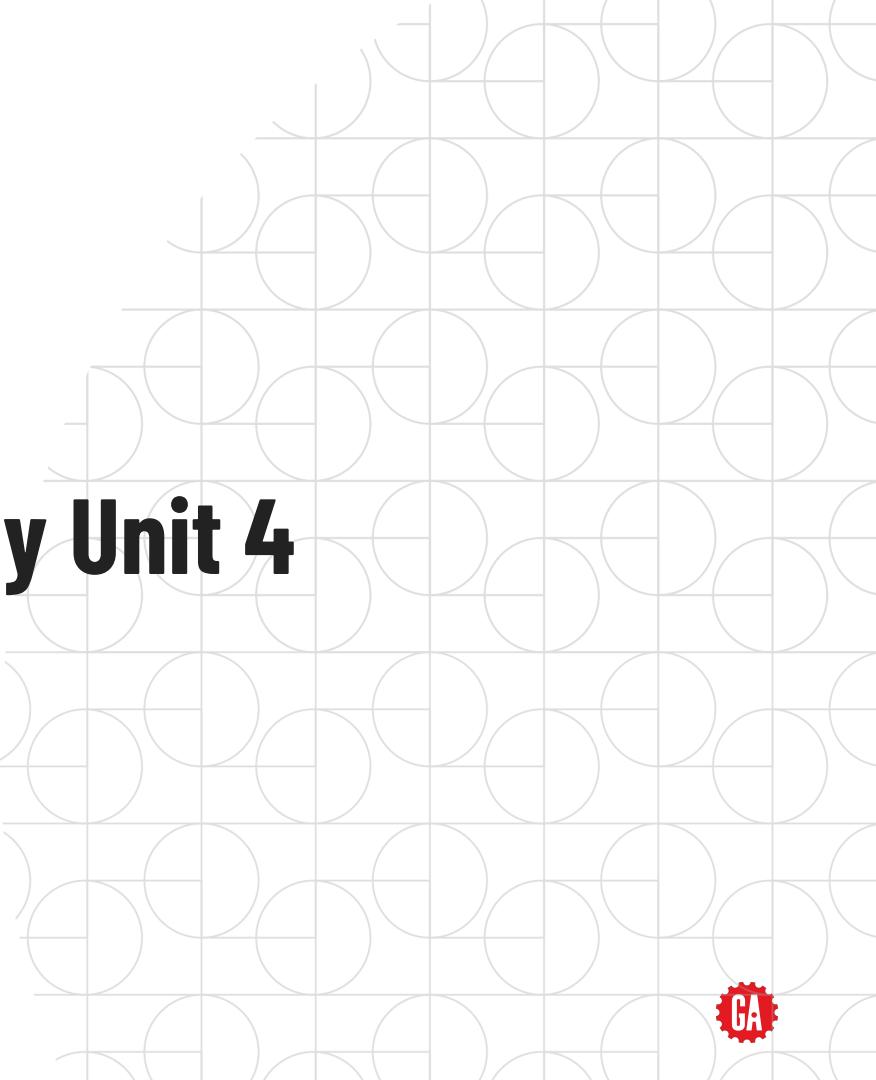
| Color Key |
|--------------------|
| Preparation |
| Morning Activity |
| Instruction |
| Instructor Support |
| Application / Lab |
| Homework |
| Capstone |



WELCOME

Saudi Digital Academy Unit 4

Django Rest API / Testing
Week 7 - Day 1



Unit 4 Django Rest API / Testing

Day 1 Schedule



| Schedule | Time | Sunday |
|----------------------------------|---------------|--|
| Morning Activity | 9:00 - 10:00 | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | <u>Django Setup, Urls, Views</u> |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | <u>Intro to Django Models and Serializers</u> |
| Homework | | <u>Finish Django Setup, URLs, Views, and DRF Intro</u> |

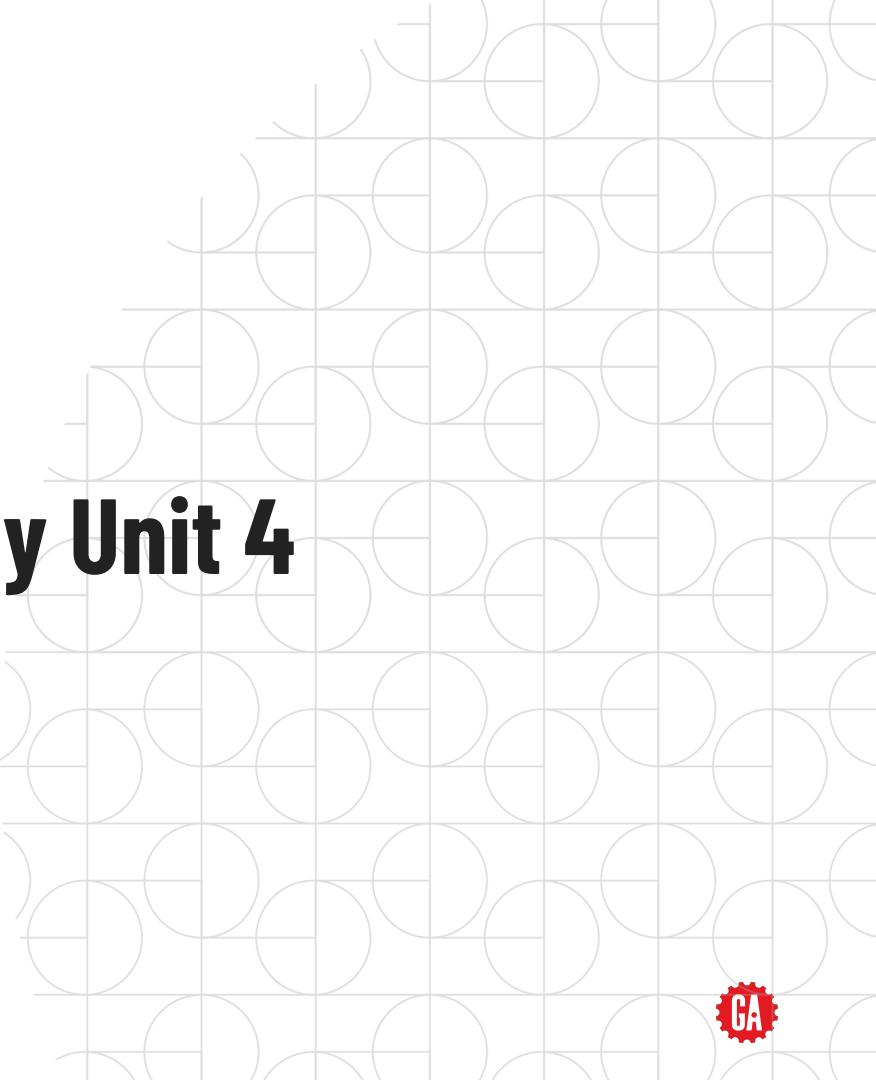
BREAK TIME



WELCOME

Saudi Digital Academy Unit 4

Django Rest API / Testing
Week 7 - Day 2



Unit 4 Django Rest API / Testing

Day 2 Schedule



| Schedule | Time | Monday |
|-------------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Django 1 to many models Django Rep |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Django many to many models |
| Homework | | Many-to-Many Relationships with DRF |



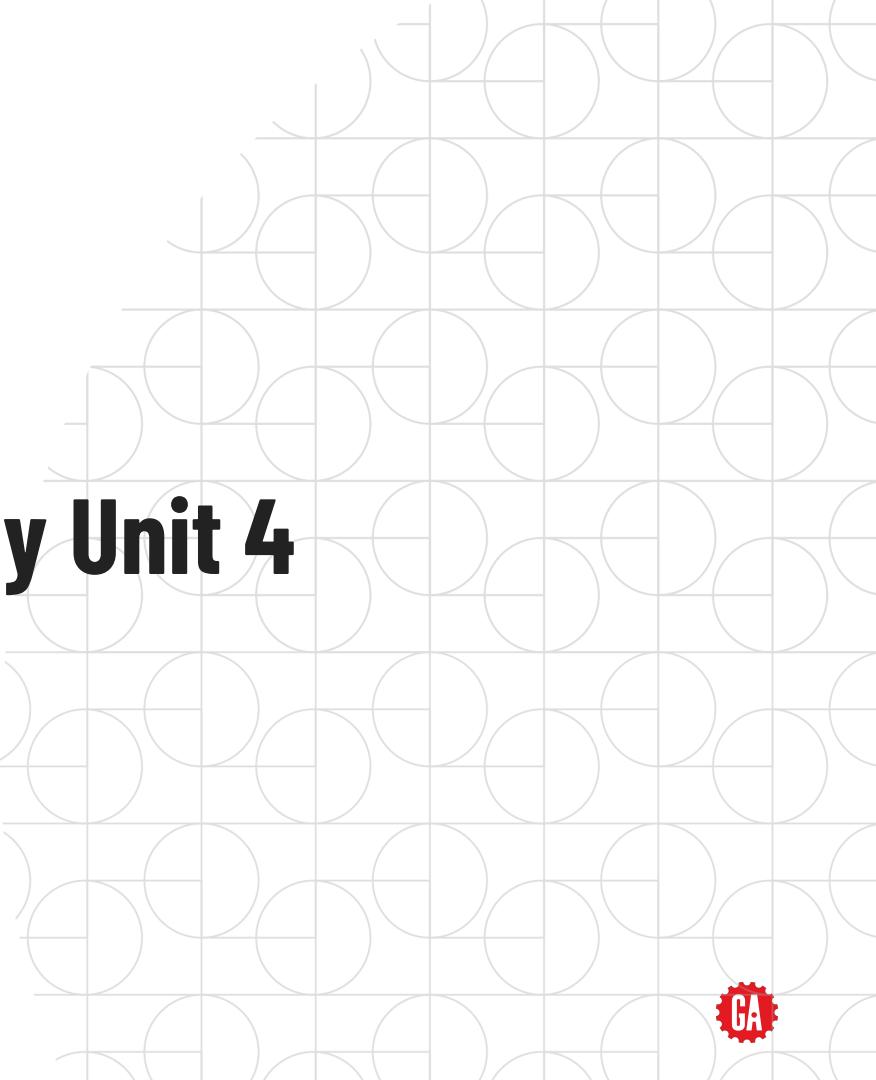
BREAK TIME



WELCOME

Saudi Digital Academy Unit 4

Django Rest API / Testing
Week 7 - Day 3



Unit 4 Django Rest API / Testing

Day 3 Schedule



| Schedule | Time | Tuesday |
|----------------------------------|---------------|--|
| Morning Activity | 9:00 - 10:00 | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Django Authentication |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Django Authentication |
| Homework | | Authentication & Authorization with DRF |



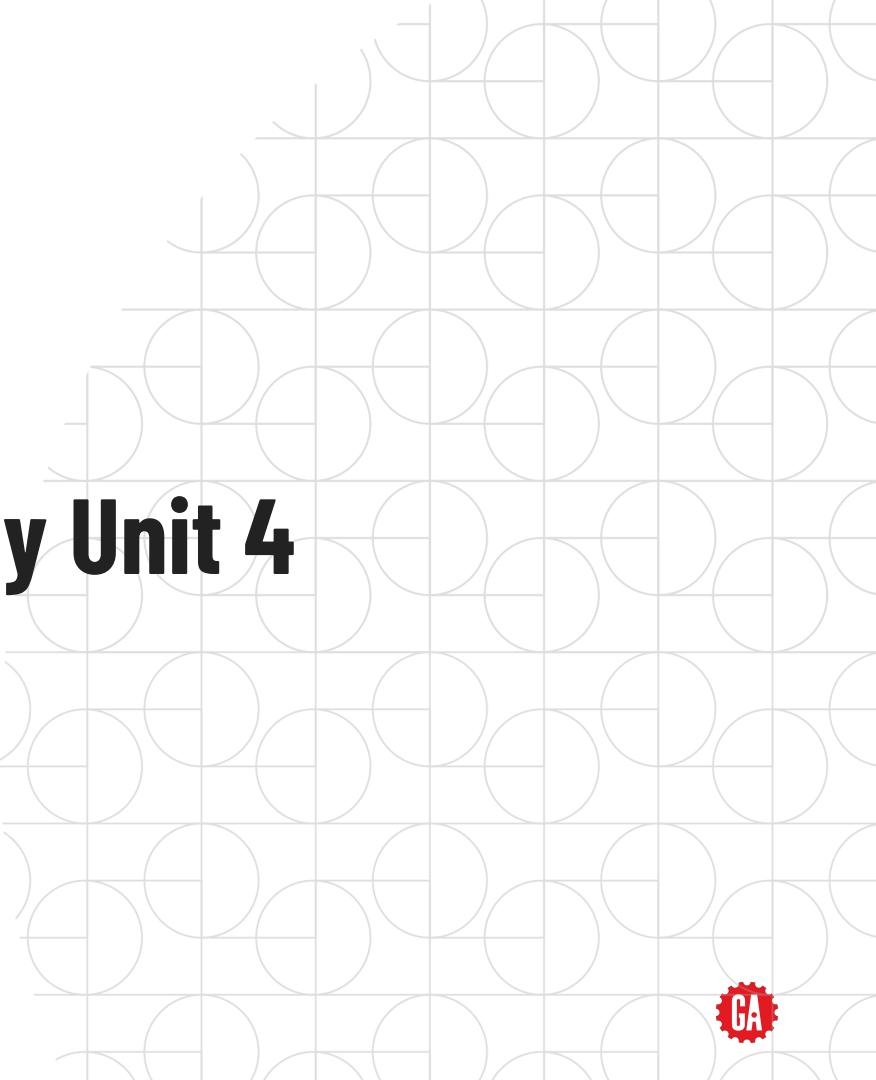
BREAK TIME



WELCOME

Saudi Digital Academy Unit 4

Django Rest API / Testing
Week 7 - Day 4



Unit 4 Django Rest API / Testing

Day 4 Schedule



| Schedule | Time | Wednesday |
|----------------------------------|---------------|--|
| Morning Activity | 9:00 - 10:00 | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | <u>Django Application Review</u> |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | <u>Django Application Review</u> |
| Homework | | |



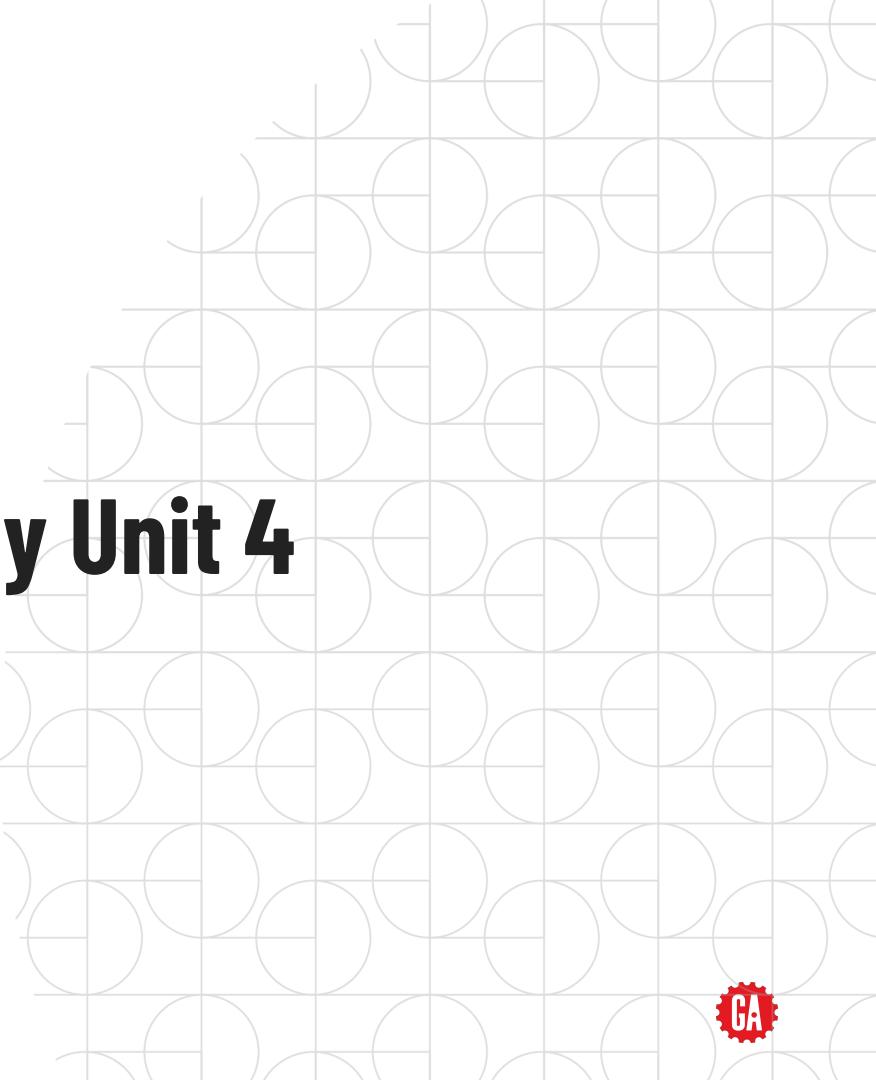
BREAK TIME



WELCOME

Saudi Digital Academy Unit 4

Django Rest API / Testing
Week 7 - Day 5



Unit 4 Django Rest API / Testing

Day 5 Schedule



| Schedule | Time | Thursday |
|----------------------------------|---------------|---------------------------------------|
| Morning Activity | 9:00 - 10:00 | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Python Unit Testing I |
| Lunch 12:30 - 1:30 | | |
| Afternoon (Instruction / Lab) | 1:30 – 5:00 | Python Testing Lab I |
| Homework | | |

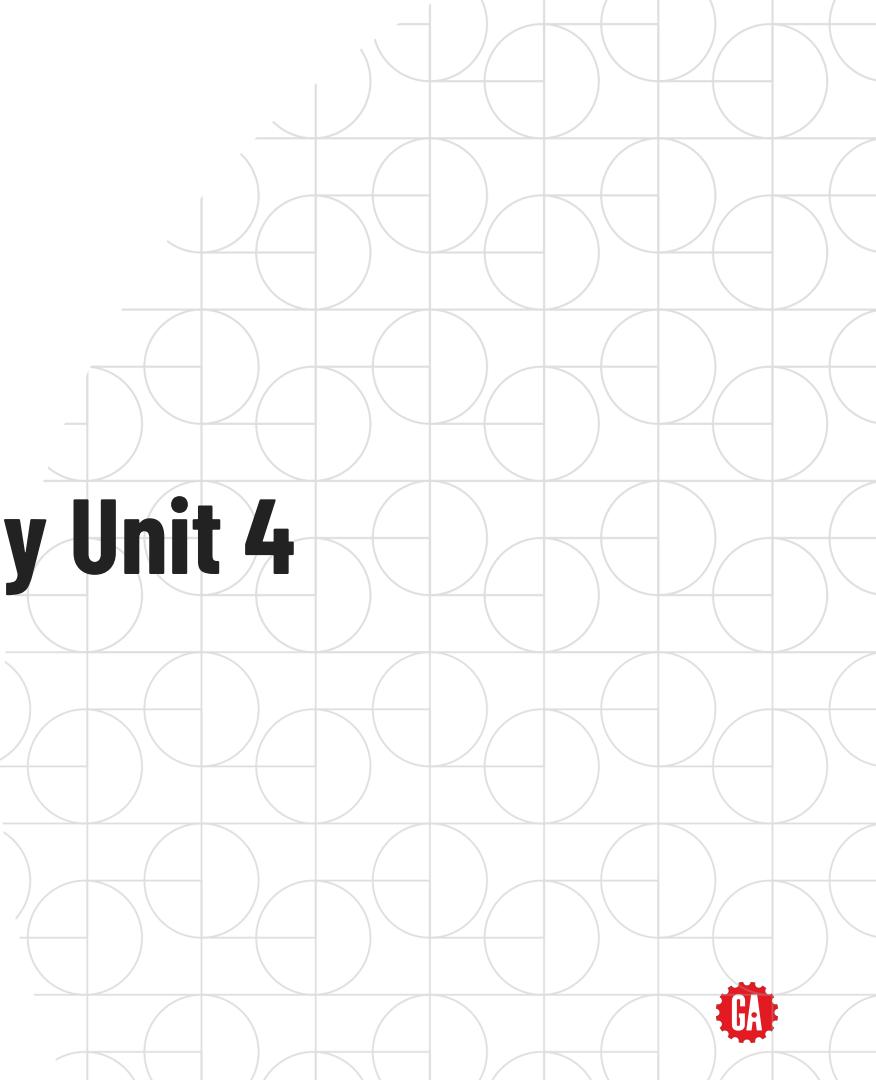
BREAK TIME



WELCOME

Saudi Digital Academy Unit 4

Django Rest API / Testing (Week 8)



Unit 4 Django Rest API / Testing

Week 8 Schedule



| Week Eight | | | | | | |
|-------------------------------|---------------|--|--|---|--|---|
| Schedule | Time | Sunday | Monday | Tuesday | Wednesday | Thursday |
| Morning Activity | 9:00 - 10:00 | Leet Code | Leet Code | Leet Code | Leet Code | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Python Unit Testing II (TDD) | Testing Django REST Authentication | Testing JWT Authentication with Mockito | Testing Django Models | Python Ladder I |
| | | | | | | Python Ladder II |
| Lunch 12:30 - 1:30 | | | | | | |
| Instructor Support | 1:30 – 2:30 | HW Review | HW Review | HW Review | HW Review | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Python Testing Lab II | Cat API Testing Lab | Mocks and Test Doubles Lab | Testing Django Models Lab | Python Ladder III |
| | | | | | | |
| Homework | | Finish Python Testing Lab II | Finish Cat API Testing Lab | Finish Mocks and Test Doubles Lab | Finish Testing Django Models Lab | Finish Python Ladder Lab, I,II, III |

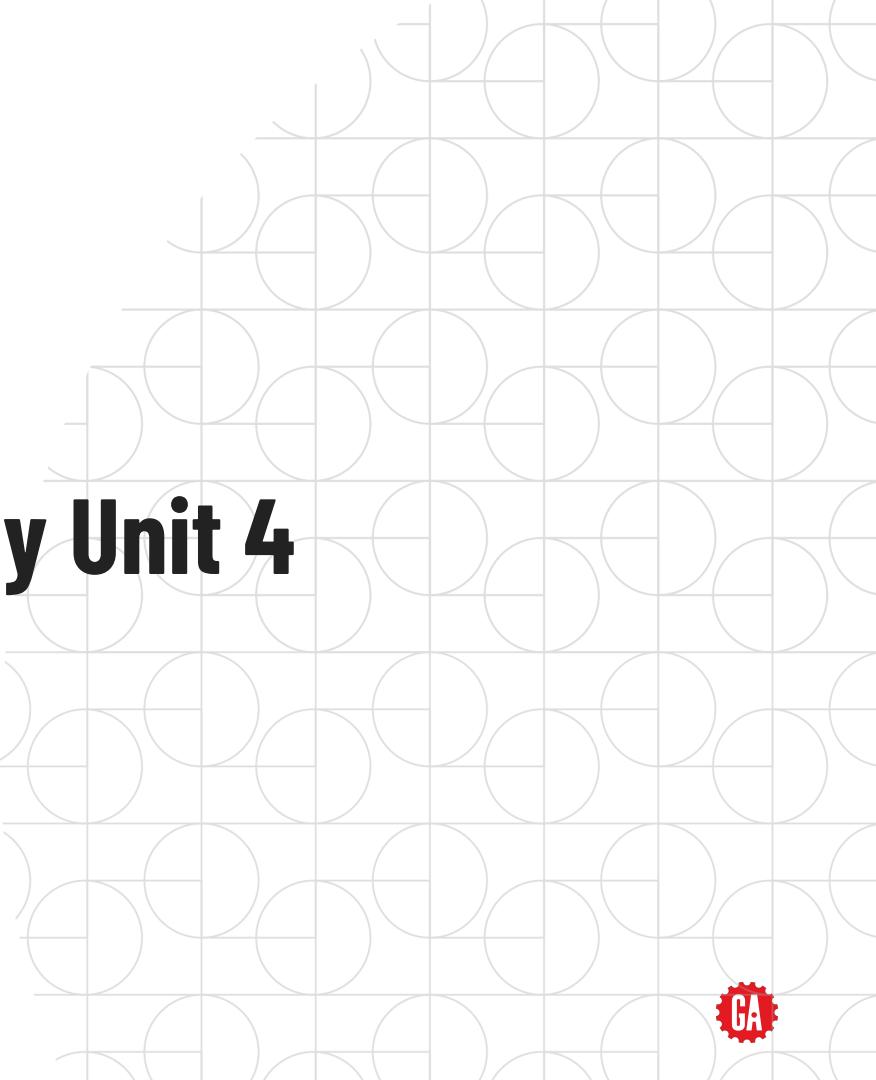
| Color Key |
|--------------------|
| Preparation |
| Morning Activity |
| Instruction |
| Instructor Support |
| Application / Lab |
| Homework |
| Capstone |



WELCOME

Saudi Digital Academy Unit 4

Django Rest API / Testing
Week 8 - Day 1



Unit 4 Django Rest API / Testing

Day 1 Schedule



| Schedule | Time | Sunday |
|-------------------------------|---------------|--|
| Morning Activity | 9:00 - 10:00 | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Python Unit Testing II (TDD) |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Python Testing Lab II |
| Homework | | Finish Python Testing Lab II |



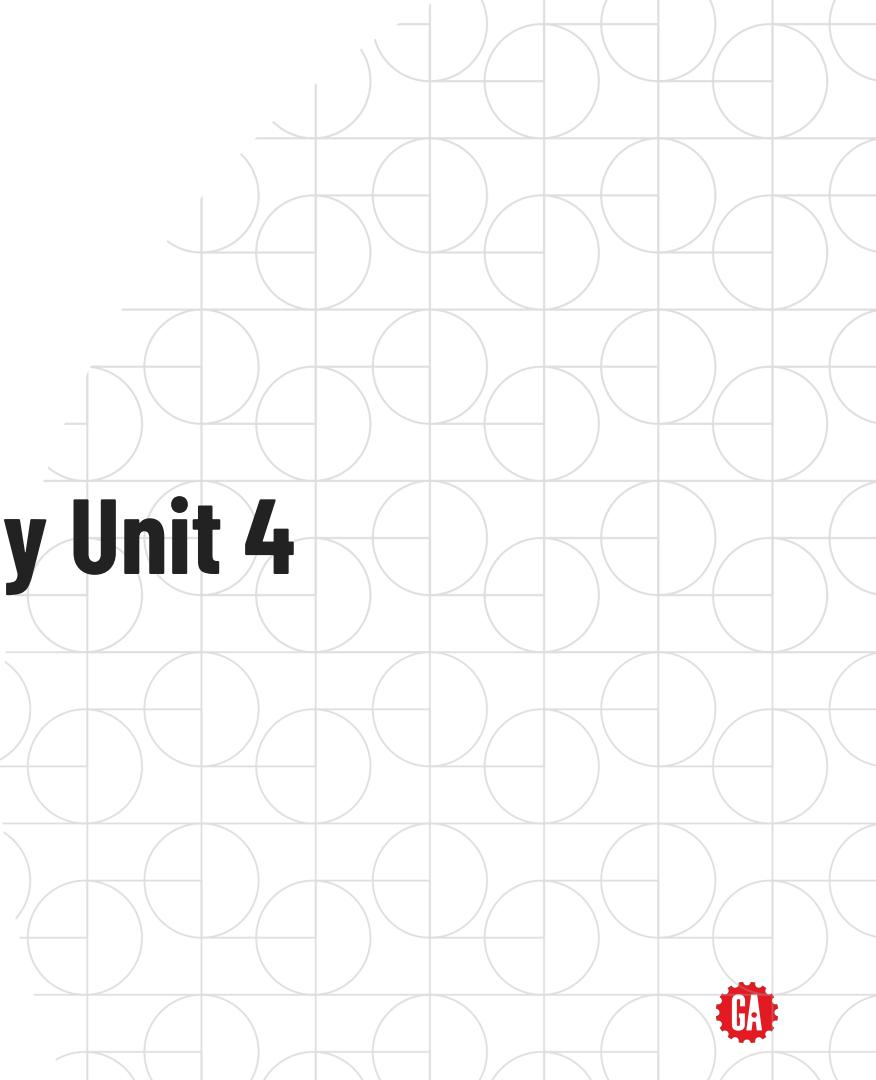
BREAK TIME



WELCOME

Saudi Digital Academy Unit 4

Django Rest API / Testing
Week 8 - Day 2



Unit 4 Django Rest API / Testing

Day 2 Schedule



| Schedule | Time | Monday |
|-------------------------------|---------------|--|
| Morning Activity | 9:00 - 10:00 | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Testing Django REST Authentication |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Cat API Testing Lab |
| Homework | | Finish Cat API Testing Lab |



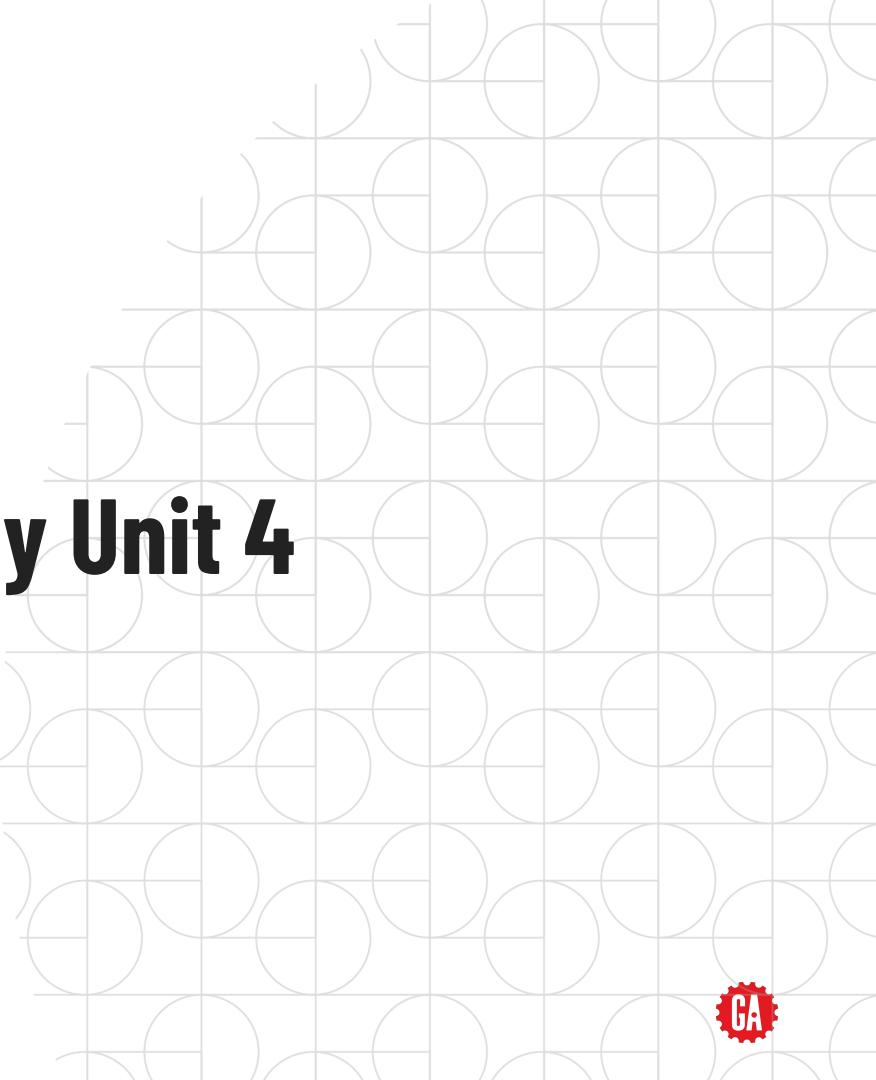
BREAK TIME



WELCOME

Saudi Digital Academy Unit 4

Django Rest API / Testing
Week 8 - Day 3



Unit 4 Django Rest API / Testing

Day 3 Schedule



| Schedule | Time | Tuesday |
|-------------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Testing JWT Authentication with Mockito |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Mocks and Test Doubles Lab |
| Homework | | Finish Mocks and Test Doubles Lab |



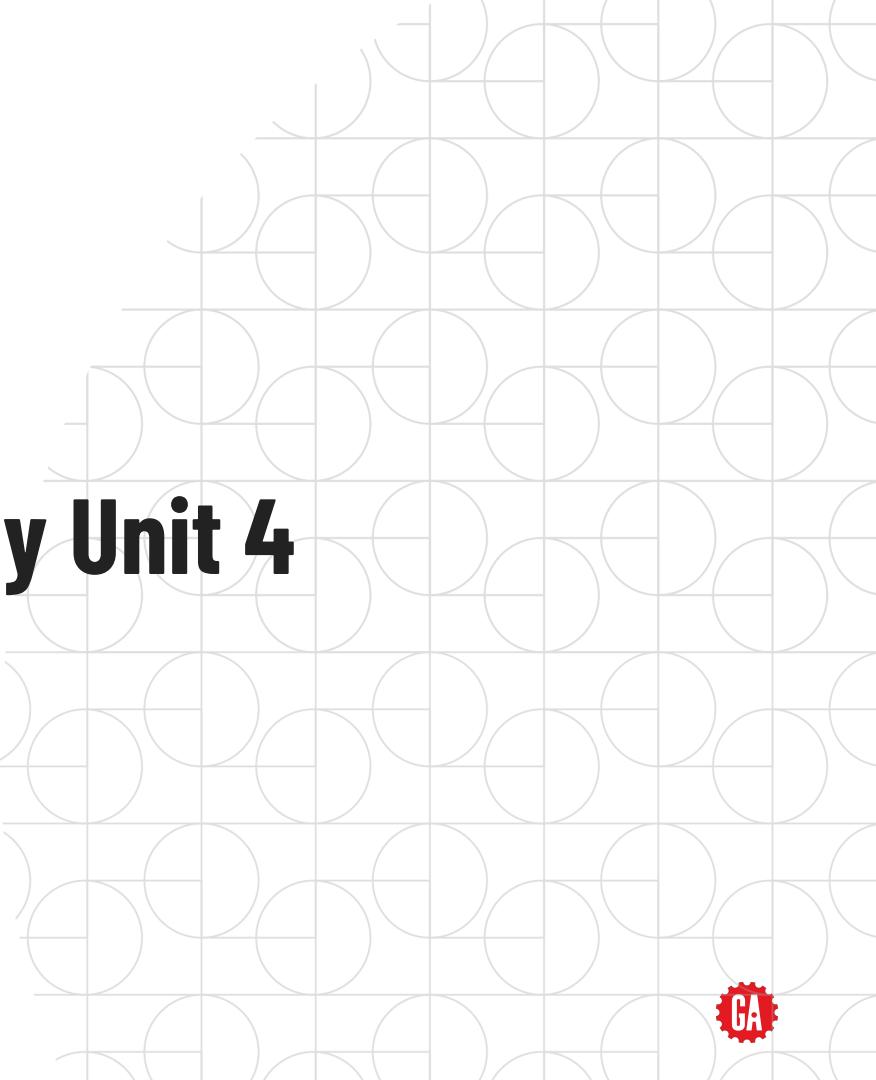
BREAK TIME



WELCOME

Saudi Digital Academy Unit 4

Django Rest API / Testing
Week 8 - Day 4



Unit 4 Django Rest API / Testing

Day 4 Schedule



| Schedule | Time | Wednesday |
|-------------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Testing Django Models |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Testing Django Models Lab |
| Homework | | Finish Testing Django Models Lab |



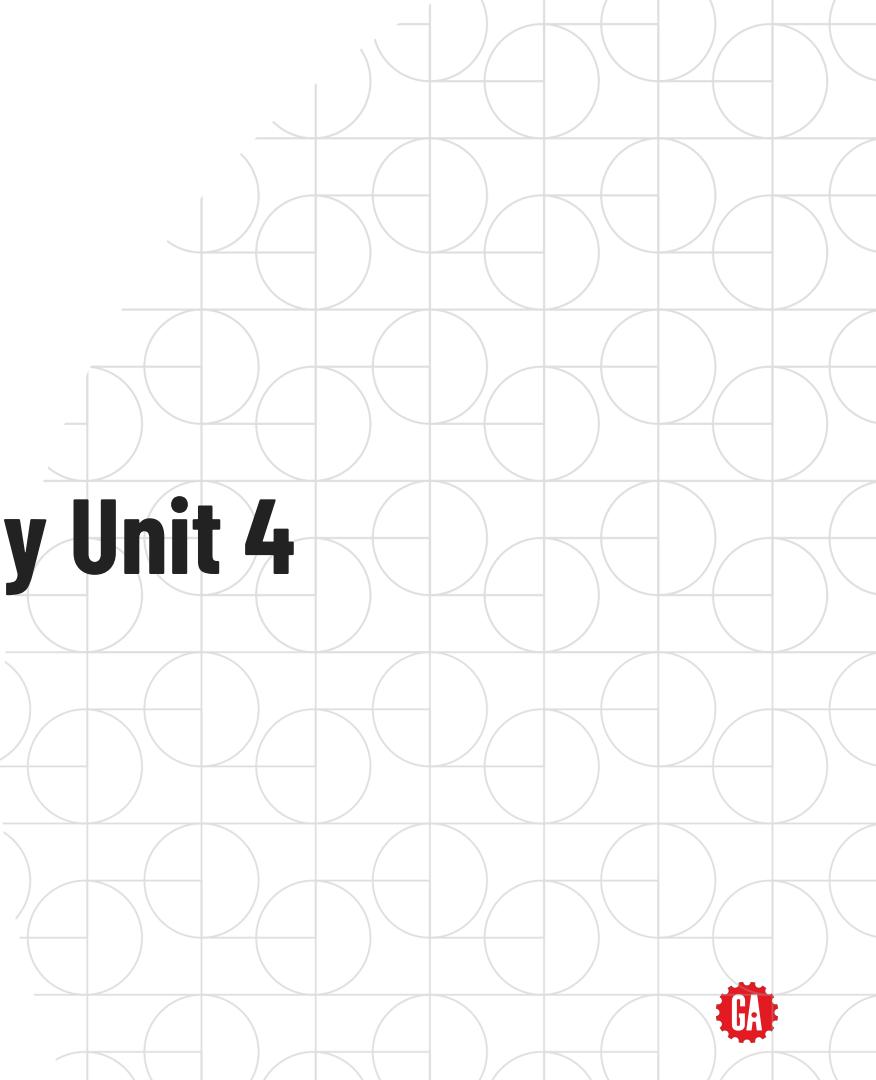
BREAK TIME



WELCOME

Saudi Digital Academy Unit 4

Django Rest API / Testing
Week 8 - Day 5



Unit 4 Django Rest API / Testing

Day 5 Schedule



| Schedule | Time | Thursday |
|----------------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Python Ladder I Python Ladder II |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Python Ladder III |
| Homework | | Finish Python LAdder Las I, II, & III |



BREAK TIME



WELCOME

Saudi Digital Academy Unit 5

React / Capstone (Week 9)



Unit 5 React / Capstone

Week 9 Schedule



| Week Nine | | | | | | |
|-------------------------------|---------------|--|---|---|--|---|
| Schedule | Time | Sunday | Monday | Tuesday | Wednesday | Thursday |
| Morning Activity | 9:00 - 10:00 | Leet Code | Leet Code | Leet Code | Leet Code | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Modern Javascript Syntax - Instruction | React Components | Controlled Forms in React | React Router in DOM | Building a Full-Stack Application with Docker |
| Lunch 12:30 - 1:30 | | | | | | |
| Instructor Support | 1:30 – 2:30 | HW Review | HW Review | HW Review | HW Review | Building a Full-Stack Application with Docker |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Intro to React | React State Management | Lifting State in React | Installing Docker and Docker Compose | Capstone |
| | | Building Your First React App | | | Introduction to Docker | |
| | | | React State Management Lab | Lifting State in React Lab | Docker Ladder Challenge | |
| Homework | | Finish Your First React App | Finish React State Management Lab | Finish Lifting State in React Lab | | |

| Color Key |
|--------------------|
| Preparation |
| Morning Activity |
| Instruction |
| Instructor Support |
| Application / Lab |
| Homework |
| Capstone |



WELCOME

Saudi Digital Academy Unit 5

React / Capstone
Week 9 - Day 1



Unit 5 React / Capstone

Day 1 Schedule



| Schedule | Time | Sunday |
|----------------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | <u>Modern Javascript Syntax - Instruction</u> <u>Intro to SPAs</u> |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | <u>Intro to React</u> <u>Building Your First React App</u> |
| Homework | | Finish Your First React App |

BREAK TIME



WELCOME

Saudi Digital Academy Unit 5

React / Capstone
Week 9 - Day 2



Unit 5 React / Capstone

Day 2 Schedule



| Schedule | Time | Monday |
|----------------------------------|---------------|--|
| Morning Activity | 9:00 - 10:00 | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | <u>React Components</u> <u>React Components Lab</u> |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | <u>React State Management</u> <u>React State Management Lab</u> |
| Homework | | Finish React State Management Lab |

BREAK TIME



WELCOME

Saudi Digital Academy Unit 5

React / Capstone
Week 9 - Day 3



Unit 5 React / Capstone

Day 3 Schedule



| Schedule | Time | Monday |
|----------------------------------|---------------|--|
| Morning Activity | 9:00 - 10:00 | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | <u>Controlled Forms in React</u> <u>Controlled Forms in React Lab</u> |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | <u>Lifting State in React</u> <u>Lifting State in React Lab</u> |
| Homework | | Finish Lifting State in React Lab |

BREAK TIME



WELCOME

Saudi Digital Academy Unit 5

React / Capstone
Week 9 - Day 4



Unit 5 React / Capstone

Day 4 Schedule



| Schedule | Time | Monday |
|----------------------------------|---------------|--|
| Morning Activity | 9:00 - 10:00 | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | <u>React Router in DOM</u> <u>React Router in DOM Lab</u> |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | <u>Installing Docker and Docker Compose</u> |
| | | <u>Introduction to Docker</u> |
| | | <u>Docker Ladder Challenge</u> |
| | | <u>Installing Docker and Docker Compose</u> |

BREAK TIME



WELCOME

Saudi Digital Academy Unit 5

React / Capstone
Week 9 - Day 5



Unit 5 React / Capstone

Day 5 Schedule



| Schedule | Time | Monday |
|----------------------------------|---------------|---|
| Morning Activity | 9:00 - 10:00 | Leet Code |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Building a Full-Stack Application with Docker |
| Lunch 12:30 - 1:30 | | |
| Instructor Support | 1:30 – 2:30 | HW Review |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Building a Full-Stack Application with Docker Capstone |

BREAK TIME



WELCOME

Saudi Digital Academy Unit 5

React / Capstone (Week 10)



Unit 5 React / Capstone

Week 10 Schedule



| Week 10 | | | | | | |
|----------------------------------|---------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------------|
| Schedule | Time | Sunday | Monday | Tuesday | Wednesday | Thursday |
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Project Approvals | Capstone | Capstone | Capstone | Project Presentations |
| Lunch 12:30 - 1:30 | | | | | | |
| Afternoon (Instruction / Lab) | 2:30 – 5:00 | Capstone | Capstone | Capstone | Capstone | Project Presentations |
| Homework | | | | | | |



WELCOME

Saudi Digital Academy Unit 5

React / Capstone
Week 10 - Day 1



Unit 5 React / Capstone

Day 1 Schedule



| Schedule | Time | Monday |
|----------------------------------|---------------|--------------------------|
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Project Approvals |
| Lunch 12:30 - 1:30 | | |
| Afternoon (Instruction / Lab) | 1:30 – 5:00 | <u>Capstone</u> |

BREAK TIME



WELCOME

Saudi Digital Academy Unit 5

React / Capstone
Week 10 - Day 2



Unit 5 React / Capstone

Day 2 Schedule



| Schedule | Time | Monday |
|----------------------------------|---------------|-----------------|
| "Morning (Instruction / Lab) | 10:00 - 12:30 | <u>Capstone</u> |
| Lunch 12:30 - 1:30 | | |
| Afternoon (Instruction / Lab) | 1:30 – 5:00 | <u>Capstone</u> |

BREAK TIME



WELCOME

Saudi Digital Academy Unit 5

React / Capstone
Week 10 - Day 3



Unit 5 React / Capstone

Day 3 Schedule



| Schedule | Time | Monday |
|----------------------------------|---------------|------------------------|
| "Morning (Instruction / Lab) | 10:00 - 12:30 | <u>Capstone</u> |
| Lunch 12:30 - 1:30 | | |
| Afternoon (Instruction / Lab) | 1:30 – 5:00 | <u>Capstone</u> |

BREAK TIME



WELCOME

Saudi Digital Academy Unit 5

React / Capstone
Week 10 - Day 4



Unit 5 React / Capstone

Day 4 Schedule



| Schedule | Time | Monday |
|----------------------------------|---------------|-----------------|
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Capstone |
| Lunch 12:30 - 1:30 | | |
| Afternoon (Instruction / Lab) | 1:30 – 5:00 | Capstone |

BREAK TIME



WELCOME

Saudi Digital Academy Unit 5

React / Capstone
Week 10 - Day 5



Unit 5 React / Capstone

Day 5 Schedule



| Schedule | Time | Monday |
|----------------------------------|---------------|------------------------------|
| "Morning (Instruction / Lab) | 10:00 - 12:30 | Project Presentations |
| Lunch 12:30 - 1:30 | | |
| Afternoon (Instruction / Lab) | 1:30 – 5:00 | Project Presentations |

BREAK TIME





GENERAL ASSEMBLY