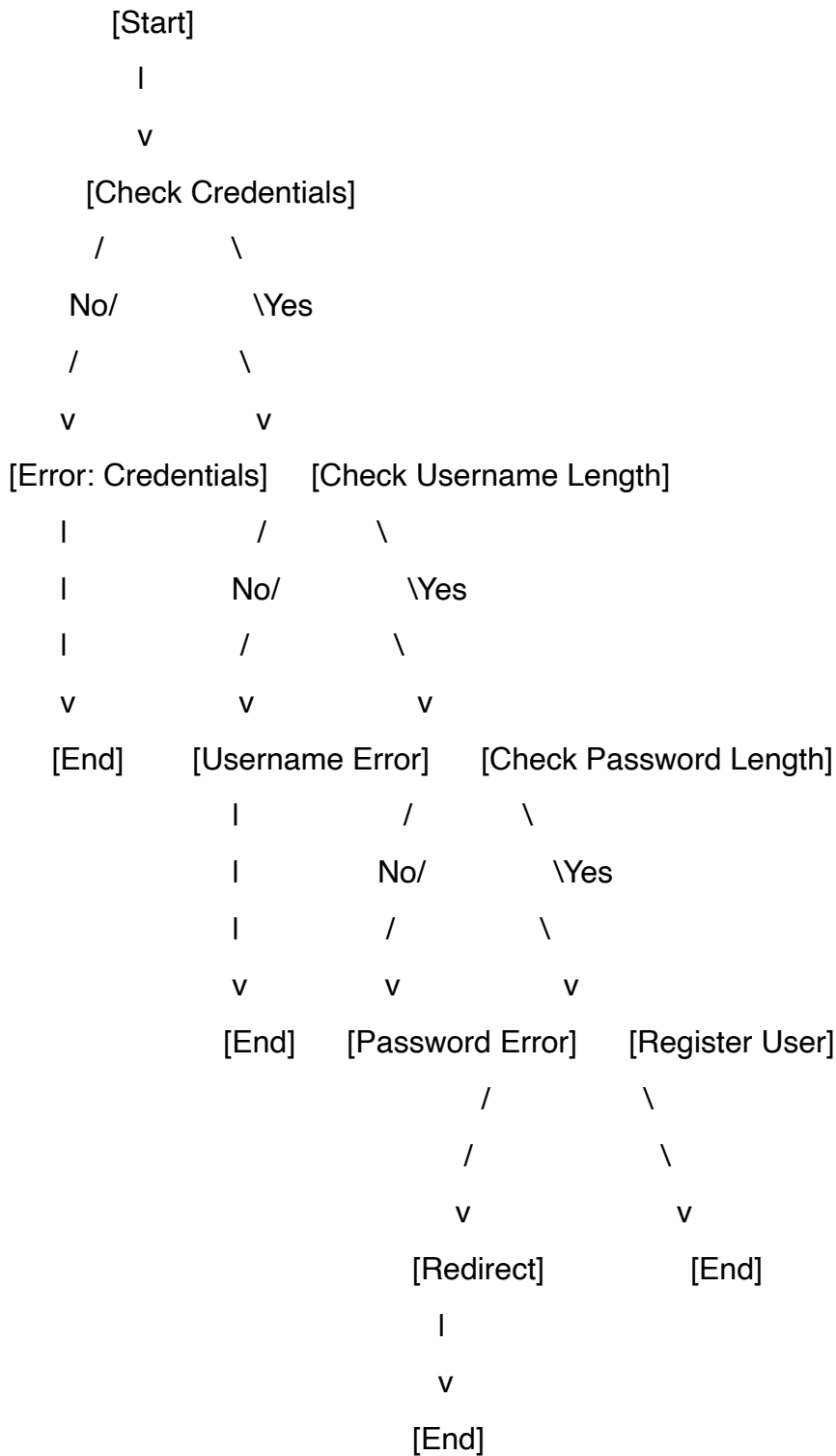


Basis Path

Algorithm for User Registration:

- 1- Start
- 2- Check if username and password are provided
 - 3- No -> Output "Username and password required"
 - 4- Yes -> Proceed
- 5- Check if username length < 5
 - 6- Yes -> Output "Username too short"
 - 7- No -> Proceed
- 8- Check if password length < 4
 - 9- Yes -> Output "Password too short"
 - 10- No -> Proceed
- 11- Register user
- 12- Redirect to "UserLogin.php"
- 13- End

Flow Graph Representation:



Formula for Cyclomatic Complexity

Nodes (N):

1. Start
2. Check if username and password are provided
3. Error: "Username and password required"
4. Check if username length < 5
5. Username Error: "Username too short"
6. Check if password length < 4
7. Password Error: "Password too short"
8. Register user
9. Redirect to "UserLogin.php"
10. End

Total Nodes = 10

Edges (E):

- Start to Check credentials
- Check credentials to Error (No credentials)
- Check credentials to Check username length
- Check username length to Username Error
- Check username length to Check password length
- Check password length to Password Error
- Check password length to Register user
- Register user to Redirect
- Redirect to End
- Username Error to End
- Password Error to End
- Error credentials required to End

Total Edges = 12

Connected Components (P):

Since the program is a single connected module, $P = 1$.

Calculation:

Using the formula $V(G) = E - N + 2P$:

$$V(G) = 12 - 10 + 2 \times 1 = 4$$

Interpretation

A cyclomatic complexity of 4 for the PHP user registration system is considered a good. This score suggests that the code is straightforward and manageable.

2.Equivalence Partition

This document outlines the Equivalence Partition and Boundary Value Analysis for the user

registration feature of a PHP project. This testing approach helps in identifying efficient and effective

test cases, reducing redundancy while ensuring comprehensive coverage of functionality.

Equivalence Partitions

Input Field	Partition	Valid?
Username	5-15 alphanumeric	Yes
Username	< 5 characters	No
Username	> 15 characters	No
Username	Special characters	No
Password	4-12 characters	Yes
Password	< 4 characters	No
Password	> 12 characters	No


User Interface Testing


Consistency


Headers and Footers: Each page features the same layout, ensuring easy navigation and familiarity.

Colour Schemes: We use a consistent palette to enhance brand recognition and visual cohesion.

Textual Presentation: All text follows the same style guide, which improves readability and aesthetic appeal.

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An Evening with Drake

Venue: Croke Park

Date: 2024-04-22

Price: €100.00

Experience the lyrical genius of Drake live at Croke Park this Saturday. With chart-topping hits and mesmerizing performances, this is one concert you can't afford to miss. Secure your spot today and witness music history in the making!

[Book Now](#)

Tickets are selling fast! Don't miss your chance!

DISTRICT X

Venue: Palmerstown House & Estate in Kildare

Date: 2024-09-17

Price: €100.00

Your District X line-up has arrived. Irelands biggest one day dance event takes place on Saturday the 21st of September at Palmerstown House & Estate in Kildare. 20 minutes from Dublin. Brought to you by the teams behind Index and District 8. 20000 people. The biggest names in the game. World class stage production. Many more names to be announced. Don't sleep on it.

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Form Submission Confirmation: Users receive a clear confirmation message upon the successful submission of forms. This reassures them that their data has been processed.

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Event Details:

Event: DISTRICT X

Venue: Palmerstown House & Estate in Kildare


Date: 2024-09-17


Price: €100.00


Description: Your District X line-up has arrived. Irelands biggest one day dance event takes place on Saturday the 21st of September at Palmerstown House & Estate in Kildare. 20 minutes from Dublin. Brought to you by the teams behind Index and District 8. 20000 people. The biggest names in the game. World class stage production. Many more names to be announced. Don't sleep on it.

Card Used: **** * 3456

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Error Messages: When users encounter errors, descriptive messages are displayed, guiding them on how to correct the issue.

These messages are designed to be helpful and constructive, reducing user frustration.

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Username must be at least 5 characters and password must be at least 4 characters.

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Validation Testing

Username Uniqueness: The script checks if the username already exists in the database, ensuring that each user has a unique identifier. This is achieved by querying the database for the count of users with the specified username and confirming that it is zero.

Password Strength: It validates the strength of the password by ensuring it is at least 8 characters long and includes both letters and digits. This helps in protecting user accounts by enforcing the creation of secure passwords.

Event Date Validation: The script confirms that an event date is in the future, preventing the scheduling of events in the past and ensuring logical consistency in event management.

Email Format Validation: It verifies that the email provided follows a proper format, using PHP's built-in `filter_var` function with the `FILTER_VALIDATE_EMAIL` filter. This step is crucial for maintaining valid and usable contact data.