W2W
(WHAT TO WEAR)

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OVERVIEW

- What is W2W
- Why W2W - Motivation
- Target Audience

PROJECT MANAGER
Jasleen Lamba

- Example 1
- Syntactic Constructs
- Example 2
- Syntactic Constructs
- Development Tools Used
- System Architecture
- Testing
- Lessons Learnt
- Future Scope

What is W2W?

W2W is a programming language that allows you to store information about the garments in your wardrobe and write programs to generate outfits depending on the weather conditions of that day.

Why W2W ?

Have you spent hours everyday wondering WHAT TO WEAR ?!

MOTIVATION

Has this happened to you?

It rained but you didn't have an umbrella!

It was extremely cold but you didn't have a jacket!

It was sunny and you came out wearing a jacket!

TARGET AUDIENCE

- YOU?

- Any user from any age group, any phase of life.

  - Clothing retailers like Macys, Forever 21 etc.

FOREVER 21

★macy's

W2W - WHAT TO WEAR

LANGUAGE BUZZ WORDS

Domain-specific

Easy to use

Declarative

Easy to learn

Intuitive

Simple

Interactive

Robust

Portable

User and situation oriented

NEXT UP

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LANGUAGE GURU
Afreen Azad

EXAMPLE 1

It's summer break and Ethan is going out for a 2 day trip. He wants to make sure that he carries along clothes appropriate for the weather accounting for the fact that the clothes should be light or blue (his favourite color)!

SYNTACTIC CONSTRUCTS

```
create wardrobe ethanwardrobe;
{
    {   item = jacket;}
    {
        item = tshirt;
        color = blue;
        shade = light;
    }
    {
        item = trousers;
        maker = prada;
        color = black;
    }
    {
        item = sweater;
        weight = heavy;
    }
}
```
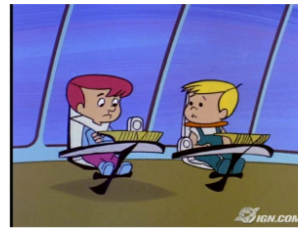
SYNTACTIC CONSTRUCTS

```
use wardrobe mywardrobe;
void main()
{
        date start = 04/25;
        date end = 04/26;

        for each garment in wardrobe
          {
            if(garment.shade == "light")
               { include;}
            else
               {
                 if(garment.color == "blue")
                 { include;}
               }
          }
        generateOutfit(start,end);
}
```


EXAMPLE 2

Ethan has taken permission from his brother to use his wardrobe to dress up for an important meeting. He wants to generate an outfit for a specific temperature. He also wants the option to generate an alternative outfit if he doesn't like the first suggestion.

SYNTACTIC CONSTRUCTS


```
use wardrobe mywardrobe+yourwardrobe;

void main()

{
    print("Input temperature for which you want outfit\n");

    temperature = read();
    generateOutfit(temperature);

    print("Are you Satisfied? [Yes/No]: ");
    string s = read();

    if(s == "no")
    {
        generateOutfit(temperature);
    }
}
```

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- System Architecture   Cyril Joshi
- Testing
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DEVELOPMENT TOOLS USED

SYSTEM ARCHITECTURE

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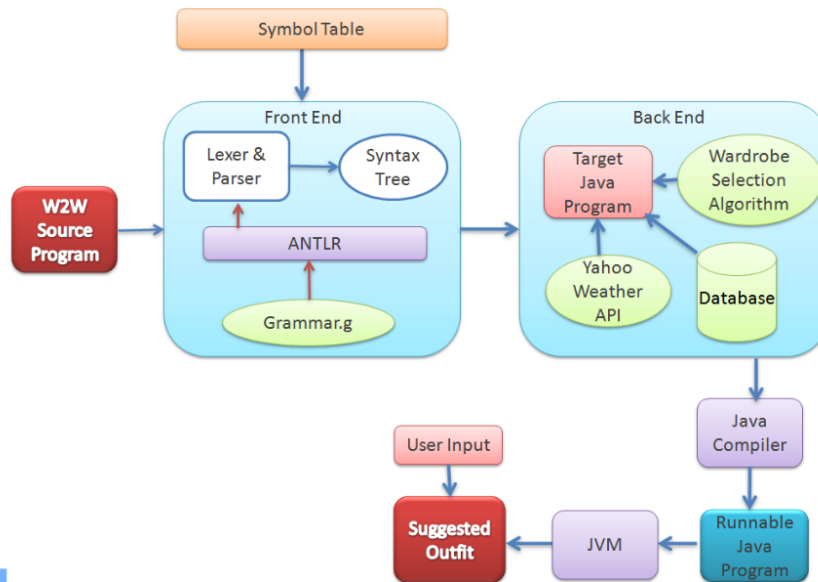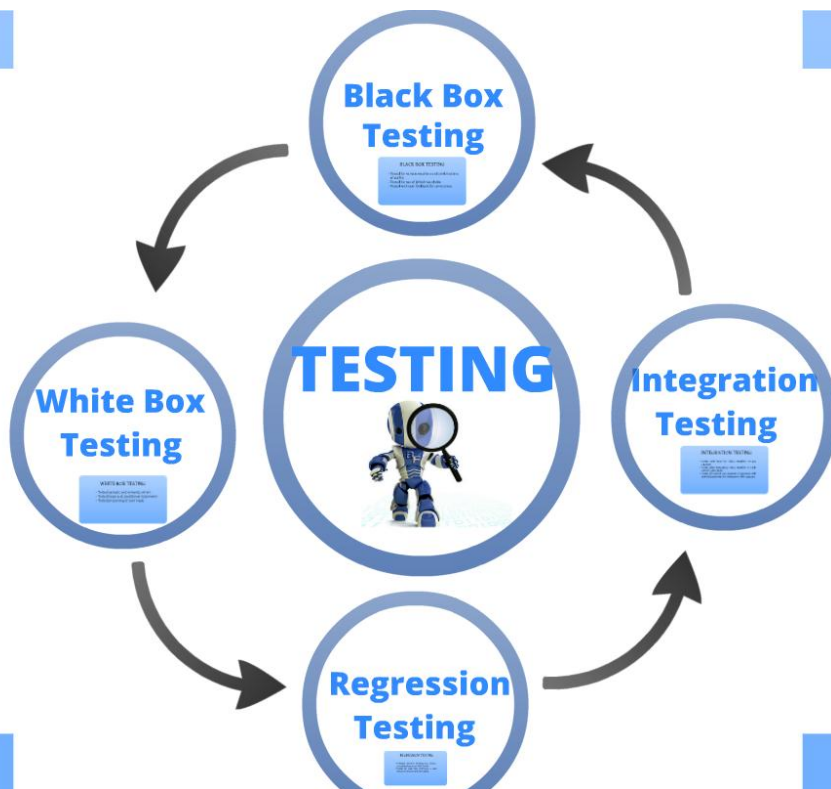- System Architecture
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SYSTEM INTEGRATOR
Kunal Mudgal

Black Box Testing

White Box Testing

TESTING

Integration Testing

Regression Testing

BLACK BOX TESTING

- Tested for various weathers and combinations of outfits
- Tested for use of default wardrobe
- Tested with user feedback for correctness

WHITE BOX TESTING

- Tested syntatic and semantic errors
- Tested loops and conditional statements
- Tested processing of user input

REGRESSION TESTING

- Followed iterative development process and added features to Hello World.
- Tested all code files everytime a new feature or functionality was added.

INTEGRATION TESTING

- Tested with stubs for Yahoo Weather API and database.
- Tested after integrating Yahoo Weather API with various date ranges.
- Tested for various combinations of garments with optional parametes for interaction with database.

FUTURE SCOPE

- Filter by and Sort By in the Wardrobe
- Deleting Garments from the Wardrobe
- Accessing the user's wardrobe from multiple systems
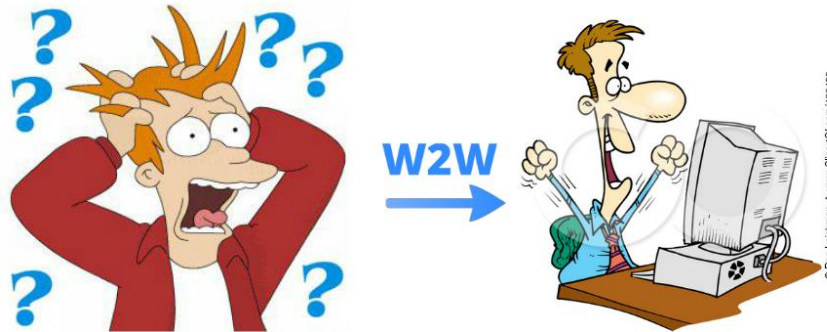- Graphical representation of the suggested outfits

LESSONS LEARNED
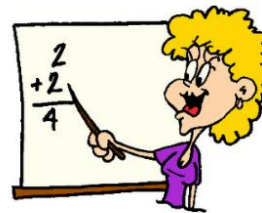
- Start on time!
- Know the difference between a language and an application
- ANTLR
- KISS (Keep it simple silly!)
- Meet often and work in small iterations.

CONCLUSION

THANK YOU !!