ROGER BURNS LANDSCAPING

CIS355A FINAL PROJECT PRESENTATION

INTRODUCTION

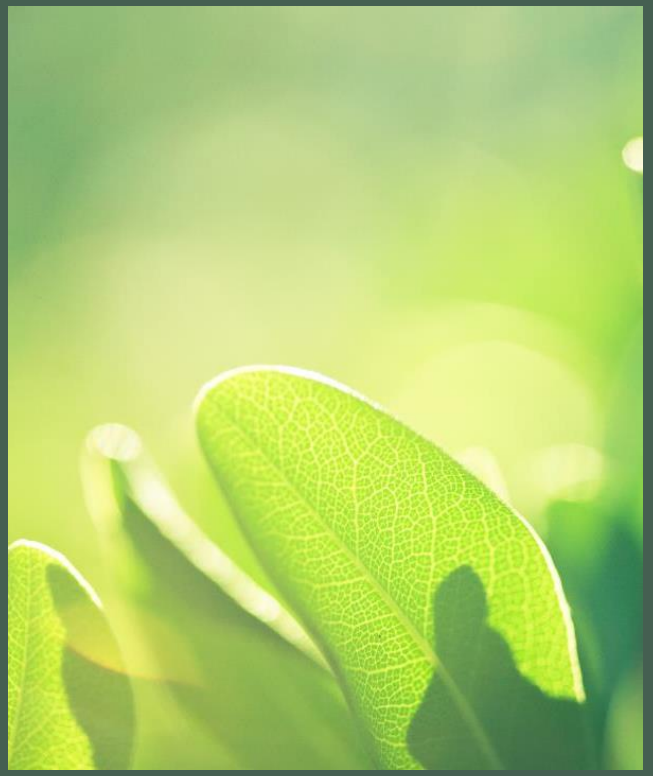
- Java is one of the top programming languages in the world
- NetBeans implements exceptional GUI features
- Java can read and write to files
- Java utilizes API connections to databases
- Java implements Event Driven Programming

YARD ELEMENTS

DIRT

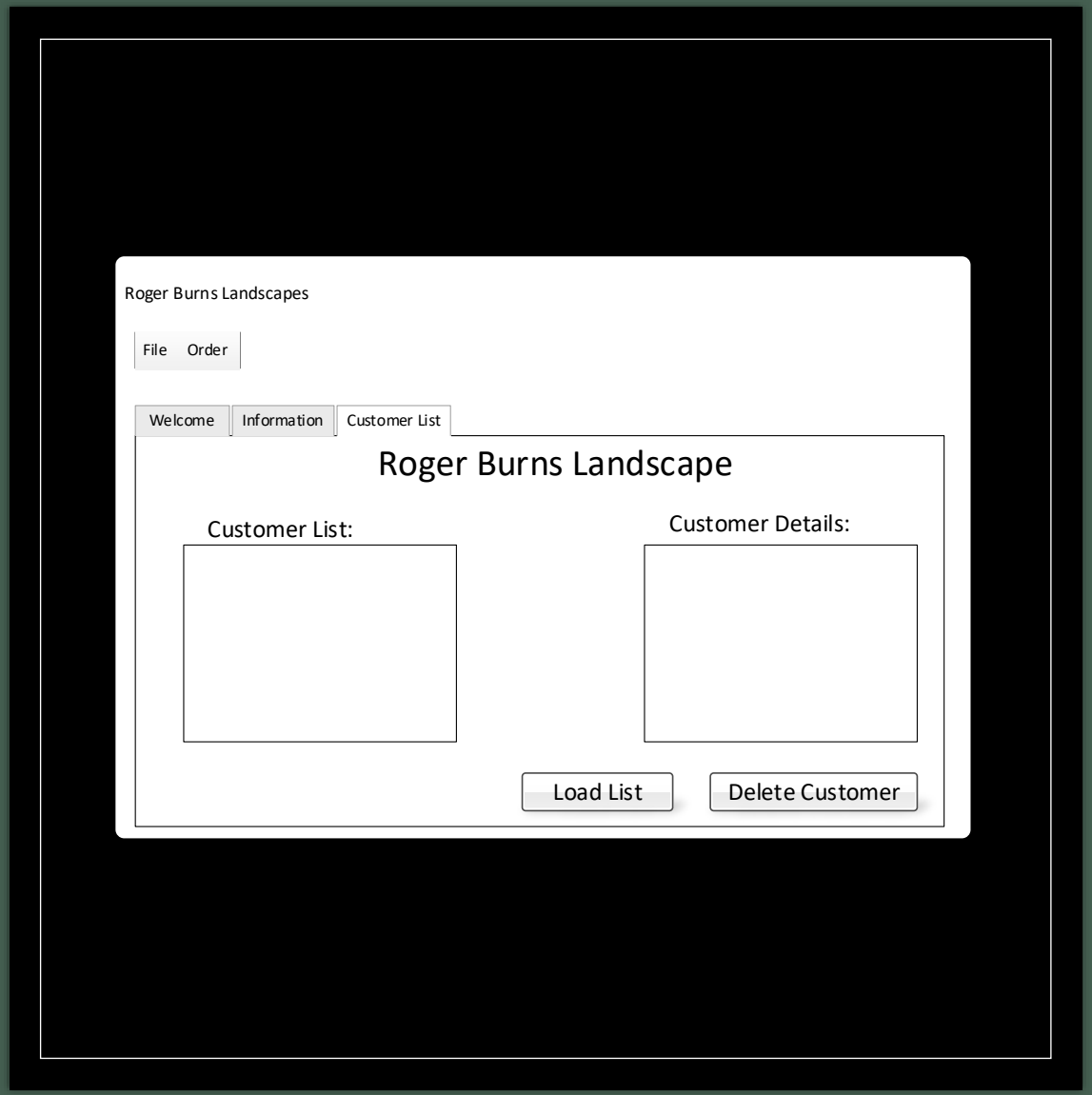
GRASS

GRAVEL



DESIGN PHASE

- Design is critical to save time
- The client can view the design documents
- Wireframe diagram gives us a target to achieve
- UML Class diagram provides structure for our application



Wireframe Diagram

GUI Design

Components

Layout

UML Class Diagram

Java Classes

Object Structure

Application Structure

GUI

LABELS
TEXTFIELDS
BUTTONS
EVENT HANDLERS

```
 * @author Roger Burns
 */
public class LandscapeGUI extends javax.swing.JFrame {

    //class level references
    DefaultListModel<Customer> customerList = new DefaultListModel();
    private final double GRASS_PER_SQFT = 5.00;
    private final double GRAVEL_PER_SQFT = 2.00;

    /**
     * Creates new form LandscapeGUI
     */
    public LandscapeGUI() {
        initComponents();

        //center the form
        this.setLocationRelativeTo(null);
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    Generated Code

    private void mniExitActionPerformed(java.awt.event.ActionEvent evt) {
        // exit the application
        System.exit(0);
```

Event Code

CODE DIVIDED INTO METHODS
–WRITE ONCE, RUN EVERYWHERE!
PULL INPUT FROM TEXTFIELDS
PROCESS INPUT
SHOW DESIRED OUTPUT

CHALLENGES

- Code syntax is case sensitive
- Compile errors required debugging skills
- GUI component alignment was trial and error

CAREER SKILLS

- Designing GUIs in Java
- Designing classes using UML
- Using three-tiered development
- Using Java syntax
- Debugging applications

Conclusion

- Java software development is challenging and exciting!
- Designing GUI applications are streamlined with NetBeans IDE
- Reading and writing to files is important
- Reading and writing to a database is crucial

CONTACT US

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