



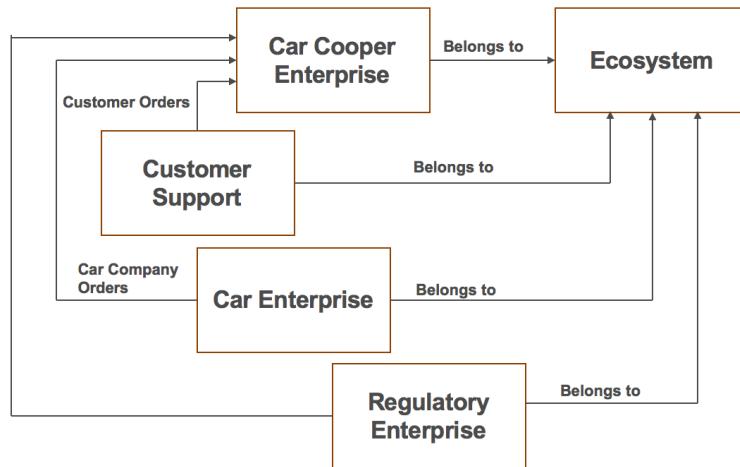
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Project Report

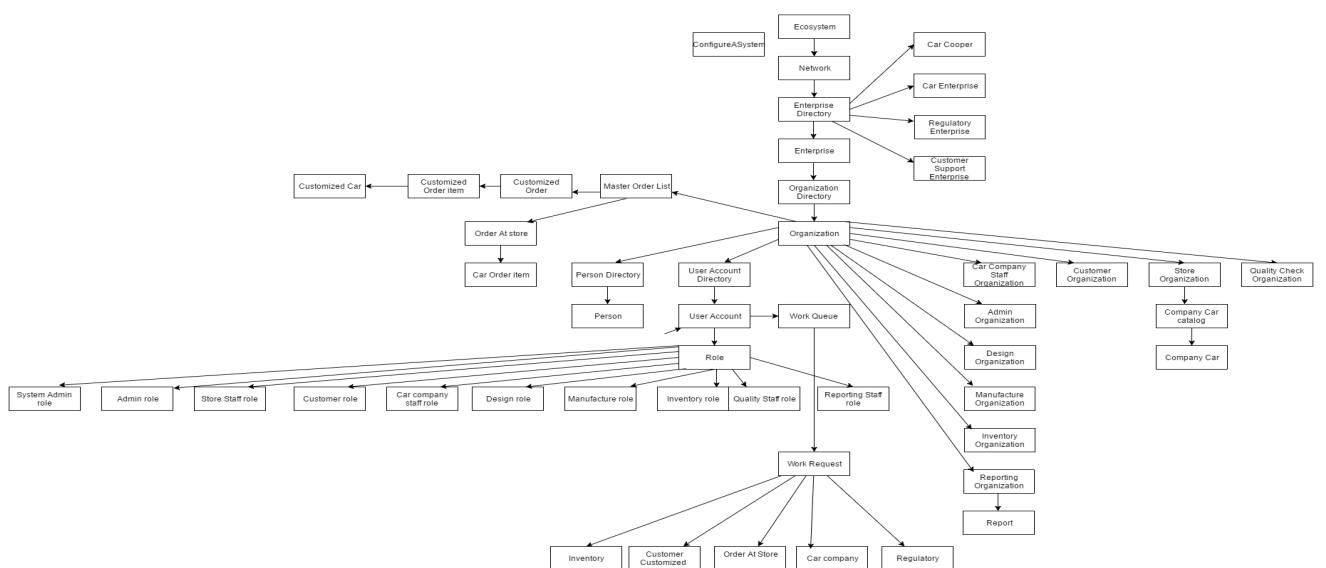
Application Engineering and Development

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Business Model

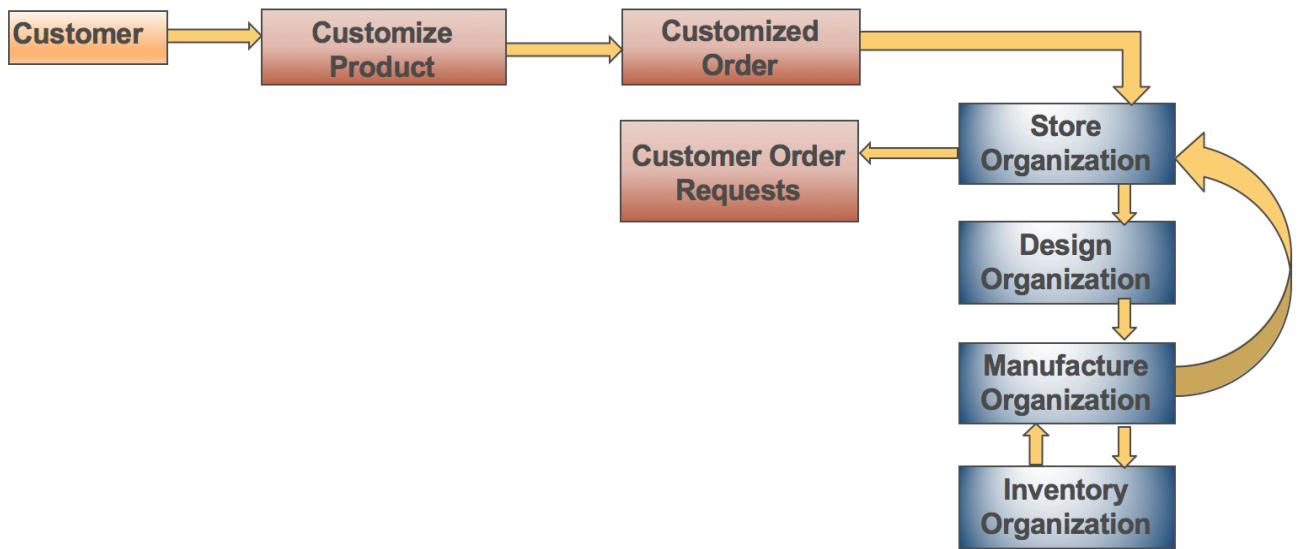


Object Model

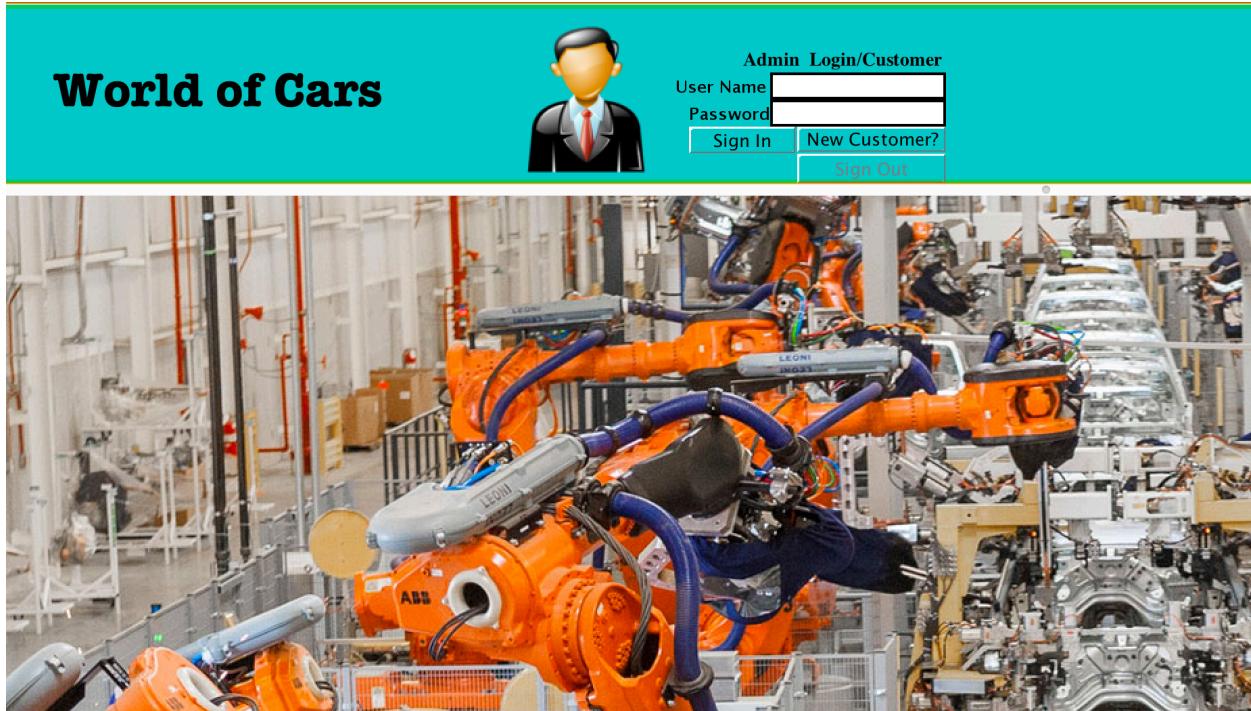


Flow Diagram

Customized Order Work Request and Inventory Work Request



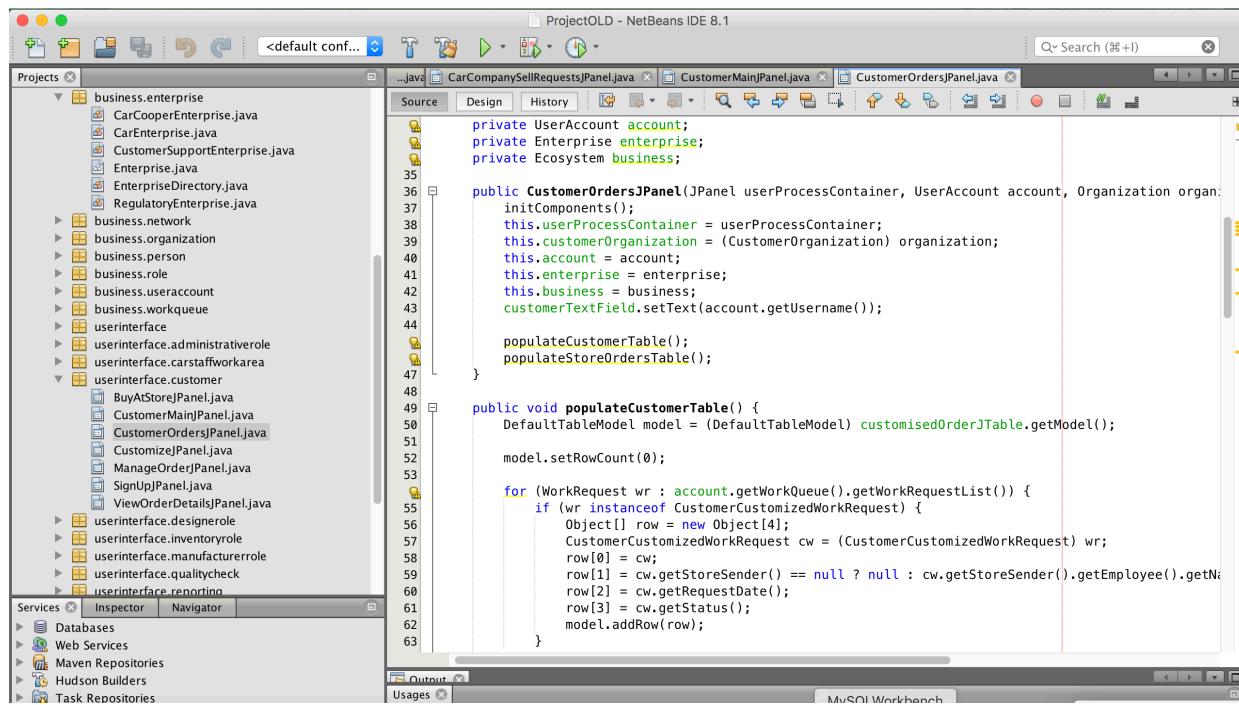
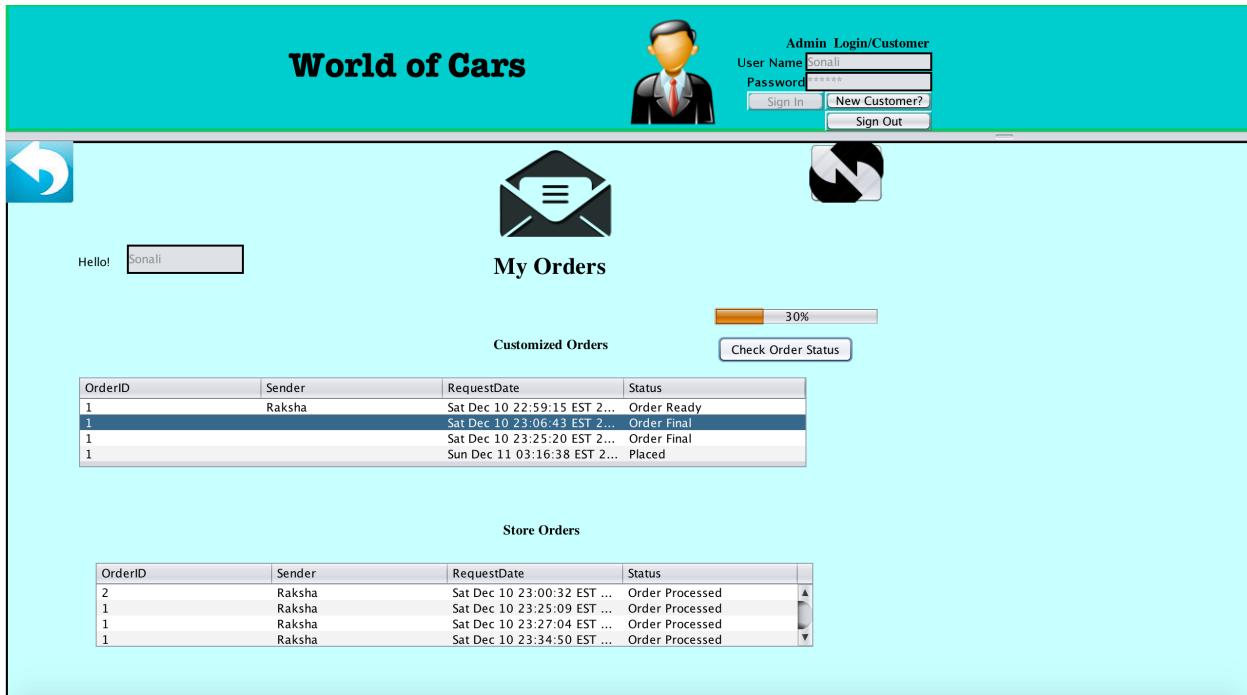
Login Screen



A screenshot of the NetBeans IDE version 8.1. The title bar shows "NetBeans File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help". The status bar indicates "63% Thu 5:25 PM". The main window displays a Java code editor with the file "Report.java" open. The code is a Java class with a method "signInJButtonActionPerformed" that handles a sign-in action. The code uses various Java libraries like System.out.println, String, and UserAccount. The code editor has line numbers from 177 to 208. The left sidebar shows a project structure with packages like "CustomerOr", "DesignOrga", "InventoryOr", "Manufacture", "Organization", "QualityChec", "ReportingOr", "StoreOrgan", "business.perso", "business.role", "business.usera", "business.workq", "userinterface.ca", "userinterface.cu", and "userinterface.di". The bottom left shows tabs for "Databases", "Web Services", "Maven Repositories", "Hudson Builders", and "Task Repositories".

```
private void signInJButtonActionPerformed(java.awt.event.ActionEvent evt) {
    //Get username
    String userName = userNameTextField.getText();
    //Get Password
    char[] passwordCharArray = passwordField.getPassword();
    String password = String.valueOf(passwordCharArray);
    //Step1: Check in the system user account directory if you have the user
    UserAccount userAccount = system.getUserAccountDirectory().authenticateUser(userName, password);
    //System.out.println(userAccount.getUsername() + userAccount.getPassword());
    Enterprise inEnterprise = null;
    Organization inOrganization = null;
    if (userAccount == null) {
        //Step2: Go inside each network to check each enterprise
        for (Network network : system.getNetworkList()) {
            //Step 2-a: Check against each enterprise
            for (Enterprise enterprise : network.getEnterpriseDirectory().getEnterpriseList()) {
                userAccount = enterprise.getUserAccountDirectory().authenticateUser(userName, password);
                if (userAccount == null) {
                    //Step3: Check against each organization inside that enterprise
                    for (Organization organization : enterprise.getOrganizationDirectory().getOrganizationList()) {
                        userAccount = organization.getUserAccountDirectory().authenticateUser(userName, password);
                        if (userAccount != null)
                            {
                                // System.out.println(organization.getName() + enterprise.getName());
                                inEnterprise = enterprise;
                                inOrganization = organization;
                                break;
                            }
                }
            }
        }
    }
}
```

Customer's Orders Screen



Work requests Screen

