Technical Specification / Schedule Auto-Owners Group

Team 1: Auto-Owners Team
CSE 498, Collaborative Design

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Project Overview

- Vendor Management System

- Real-Time

- Desktop Winform Application with SQL database

- Ability to add/edit/delete contracts / services and vendors

- Reporting contracts / services that are due to expire or change

- Group permission functionality when creating users

Functional Specifications

- 4 distinct user group permissions: Administrator, IT management, Purchasin, and Legal

- Ability to add / edit / delete

- Search functionality for contracts / services and vendors

- Built-in security features including login and private data items

- Ability to have a running list of "notes" (blog style) associated with data items
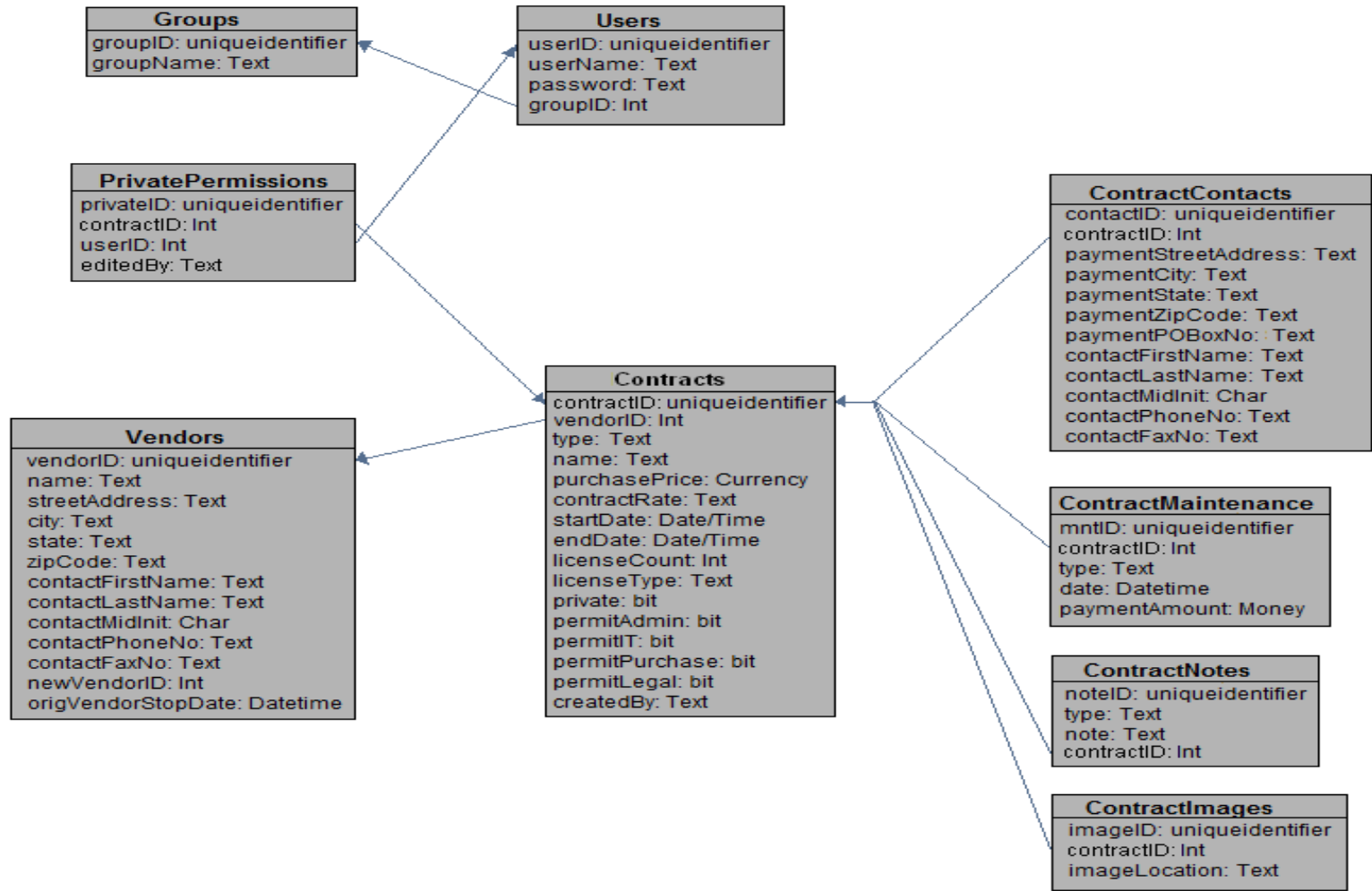
System Components

- Hardware Platforms
  - Central Database Server
  - Multiple client PC's
  - Network drive for Image storage
- Software Platforms / Technologies
  - Microsoft Windows 2003 Server edition
  - Microsoft Windows XP
  - Microsoft SQL 2005
  - Microsoft Visual Studio.Net 2005
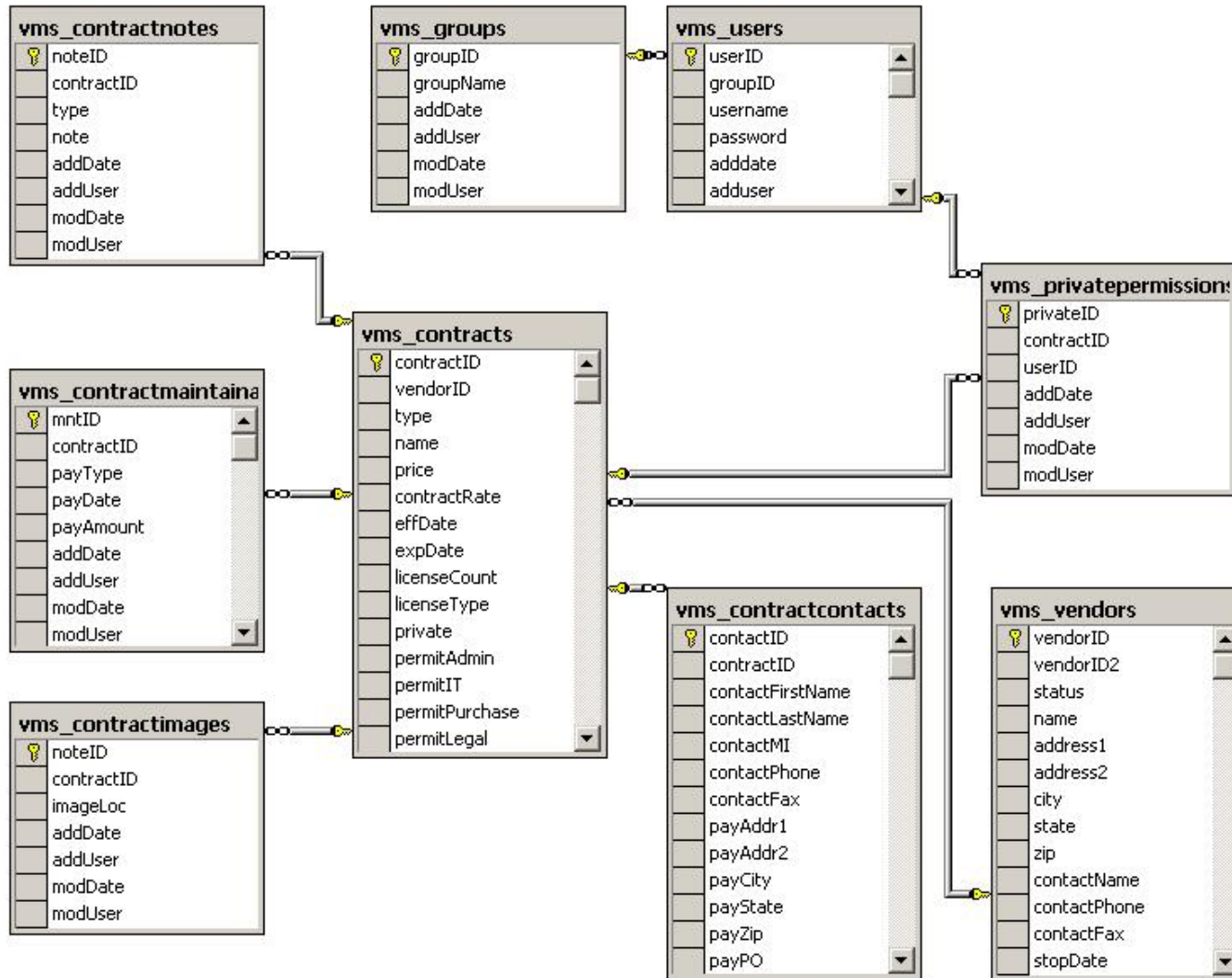
Architecture Illustrated 1/3

Groups
groupID: uniqueidentifier
groupName: Text

Users
userID: uniqueidentifier
userName: Text
password: Text
groupID: Int

PrivatePermissions
privateID: uniqueidentifier
contractID: Int
userID: Int
editedBy: Text

ContractContacts
contactID: uniqueidentifier
contractID: Int
paymentStreetAddress: Text
paymentCity: Text
paymentState: Text
paymentZipCode: Text
paymentPOBoxNo: Text
contactFirstName: Text
contactLastName: Text
contactMidInit: Char
contactPhoneNo: Text
contactFaxNo: Text

Vendors
vendorID: uniqueidentifier
name: Text
streetAddress: Text
city: Text
state: Text
zipCode: Text
contactFirstName: Text
contactLastName: Text
contactMidInit: Char
contactPhoneNo: Text
contactFaxNo: Text
newVendorID: Int
origVendorStopDate: Datetime

Contracts
contractID: uniqueidentifier
vendorID: Int
type: Text
name: Text
purchasePrice: Currency
contractRate: Text
startDate: Date/Time
endDate: Date/Time
licenseCount: Int
licenseType: Text
private: bit
permitAdmin: bit
permitIT: bit
permitPurchase: bit
permitLegal: bit
createdBy: Text

ContractMaintenance
mntID: uniqueidentifier
contractID: Int
type: Text
date: Datetime
paymentAmount: Money

ContractNotes
noteID: uniqueidentifier
type: Text
note: Text
contractID: Int

ContractImages
imageID: uniqueidentifier
contractID: Int
imageLocation: Text

5

Architecture Illustrated 2/3

Architecture Illustrated 3/3

7

Risks 1/2

- Little / No knowledge of C# / .NET development
  - 1 to 2 developers have C# experience
  - To overcome this we need to learn C#
- Image capture / Storage and integration
  - To overcome this we have discussed having a separate network drive where the images can be stored and accessed. The path information will be stored in the database on the server.

Risks 2/2

- Notification system for contract deadlines and alerts and checking for this
  - Potential Solutions
    - Nightly script that is run
    - Notification right on the client app
    - SQL Mail

- Scope / Feature creep
  - Project has many potential feature additions that are not all going to be possible
  - We need to make sure to focus on core functionality and then address other features as needed

Project Schedule

1. Schedule, DB Spec, and overview done
    a) Goal: have all of these items completed
    b) 09-10
2. Tech Spec Due
    a) Goal: Have Technical Specifications completed
    b) 09-17
3. SQL2005 / SVN Installed
    a) Goal: Have Project critical software installed and functioning
    b) 09-18
4. Winform App compiling / working
    a) Goal: Have Winform application compiling
    b) 09-19

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Project Schedule

4. Database Set-up completed

    a) Goal: Have the Database structure completed

    b) 09-24

5. Ability to read/write to DB from client

    a) Goal: Have the ability to talk with the database from the C# app using ADO.NET.

    b) 09-26

6. Add, edit, delete, view functionality

    a) Goal: Have these featured implemented and working

    b) 10-03

Project Schedule

7. Prototype Demo

    a) Goal: Have a working prototype to demo for client / class

    b) 10-08

8. Multi-User functionality

    a) Goal: Have the ability to have multiple clients working on same database simultaneously (data integrity check)

    b) 10-15

9. Image Scan/Storage

    a) Goal: Have the ability to import a scanned image and store it on a Connected network drive

    b) 10-22

Project Schedule

10. Search/Filter Functionality

    a) Goal: Have a search functionality and filtering functionality integrated into the app

    b) 10-29

11. Make Pretty

    a) Goal: Have GUI as detailed and feature rich as possible. Project "completion"

    b) 11-26

Project Schedule

12. Video Shooting / script complete

    a) Goal: Have video complete

    b) 12-01

13. Video Due

    a) Goal: Have video completed and turned in

    b) 12-03

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