

ValleyData

PROGRAMMING GROUP

CSUS Senior Project

Introduction

- **Ryan** - **Our sponsor, their problem**
- **Aaron** - **Specifications and features**
- **Matt** - **Technical skills**
- **Learning plan**
- **Jaspreet** - **Process and schedule**
- **Charles** - **Team member roles**
- **Risks and contingency**

Our Sponsor

- **Angus-Hamer, Inc.**
 - A local consulting firm specializing in network design and implementation
- **Sponsor's problem**
 - Virtual office environment
 - Planning, coordination, and communication are essential
 - Online human resource database will improve productivity

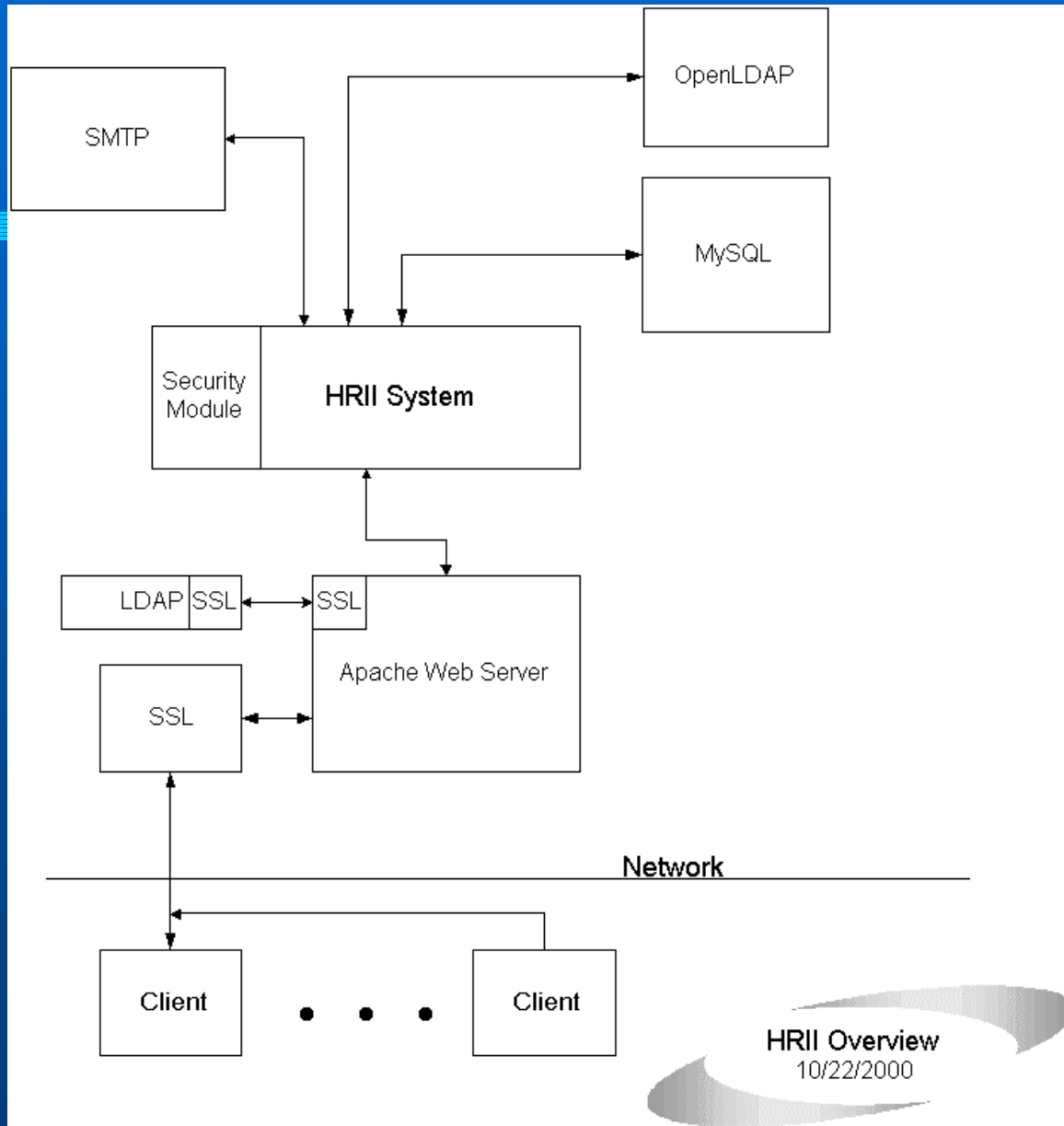
Specifications

- **Must run on Angus-Hamer's existing Berkeley Software Design Inc. server**
- **Users must be authenticated through Lightweight Directory Access Protocol**
- **Open source packages should be facilitated**
- **End product must be extendable**
- **Secure and reliable**

Features of Proposed Solution

- **Web based forms to initiate the hiring process**
- **Sets of tasks are created to facilitate the hiring process**
- **Sends out email reminders as tasks are delegated**

Proposed Solution Diagram



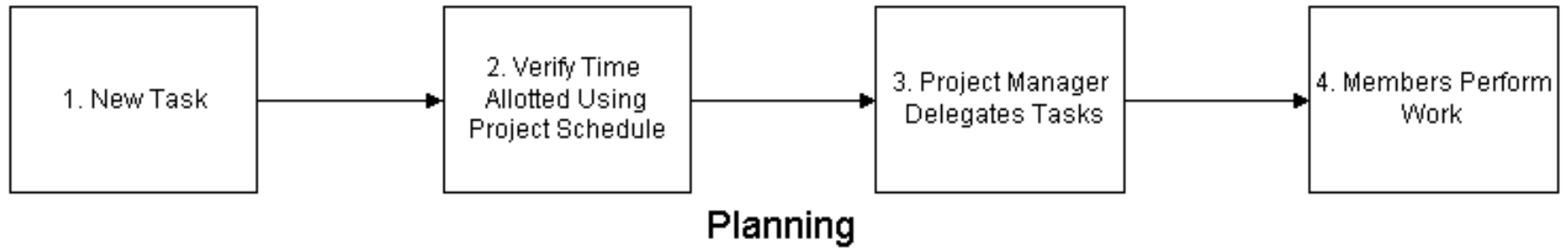
Technical Skills

- **UNIX operating system – BSDI**
- **Open Source software packages**
 - Apache Web Server
 - OpenLDAP
 - PHP : Pre-Hypertext Processing
 - MySQL
 - OpenSSL : Secure Socket Layer

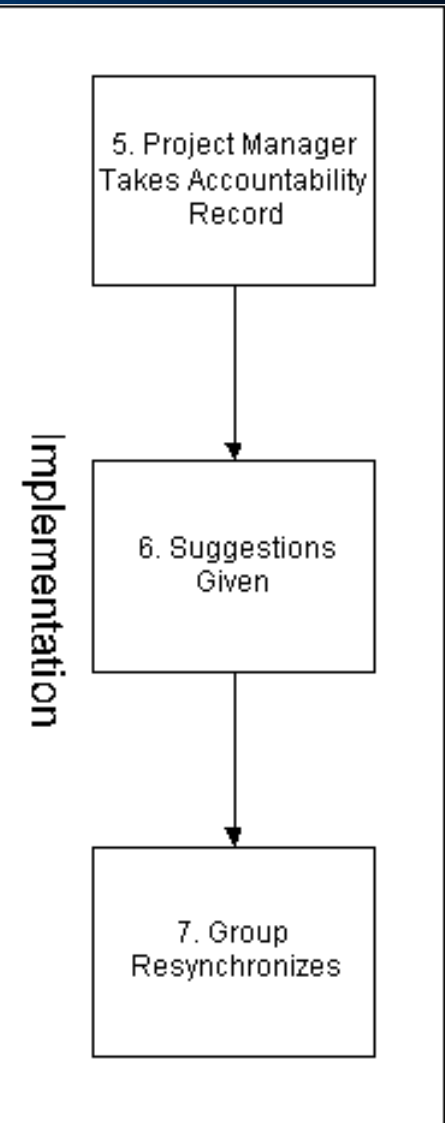
Learning Plan

- **Buy books on PHP, MySQL, OpenLDAP, SSL, Apache, and BSDI**
- **Use Winter break to learn and practice these technologies**
 - **Share knowledge with group members**
 - **Create a Simple, Web-based bulletin board system as a “homework” project**

Project Management

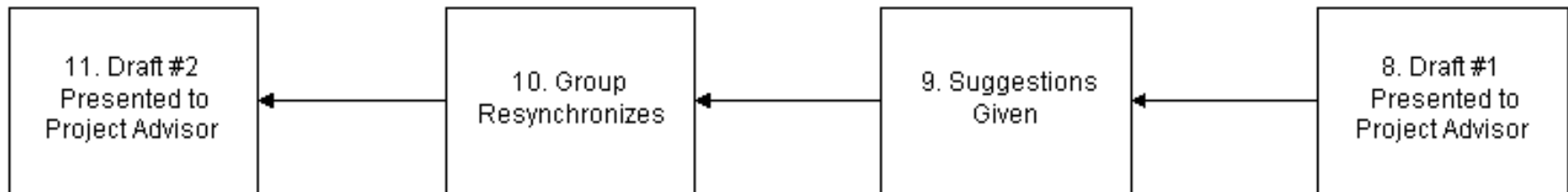


Project Management

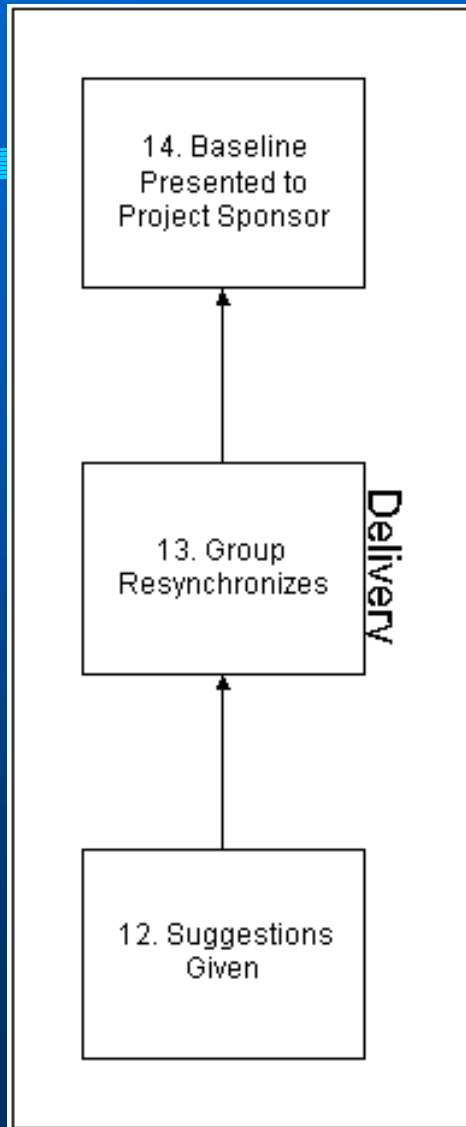


Project Management

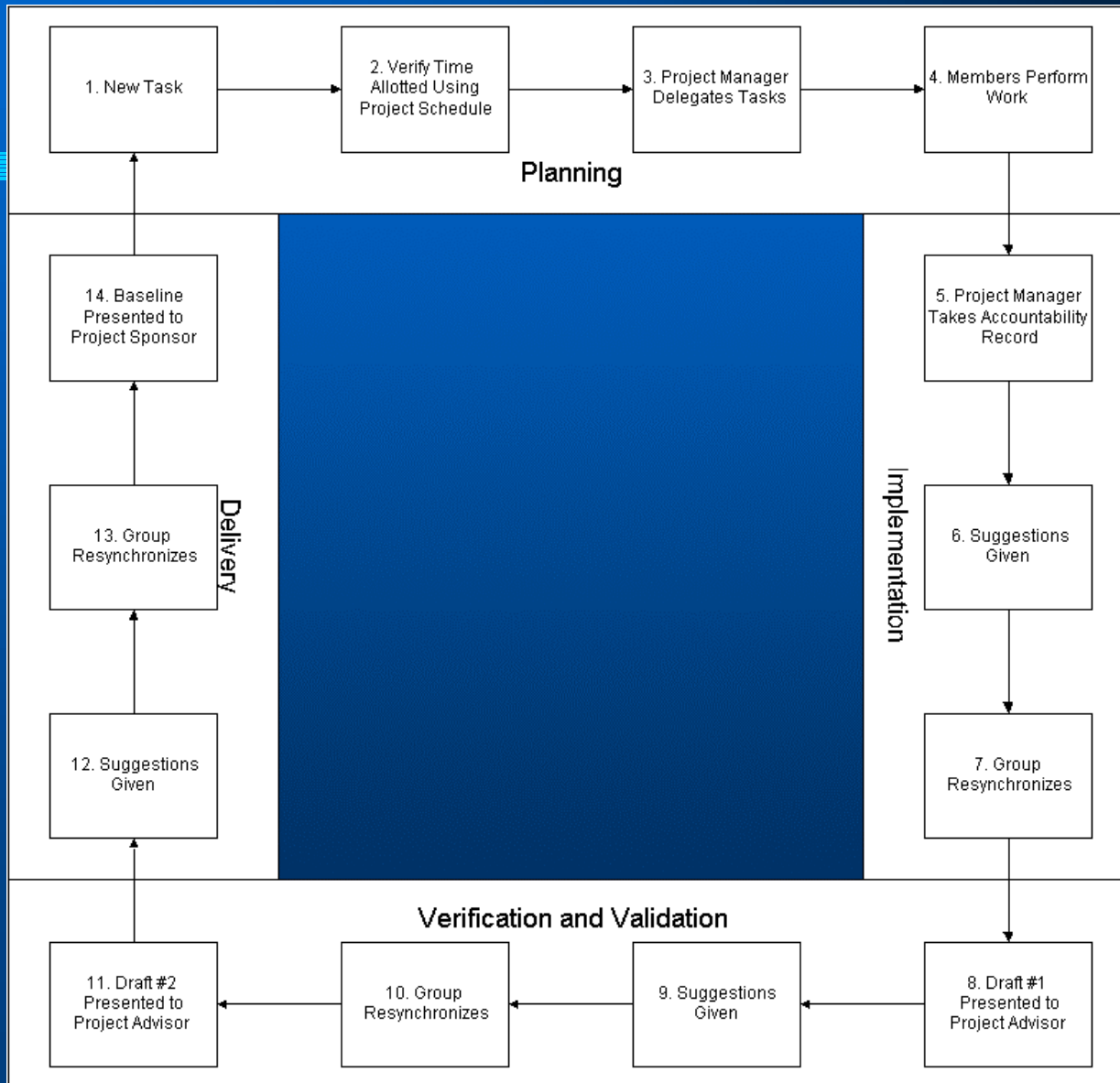
Verification and Validation



Project Management



Project Management



Project Management Cont.

- **Group Communication**
 - We meet in person three times a week
 - Chat – ICQ
 - Email mailing list
 - Phone bridge
- **File management**
 - Shared web site
 - File naming convention
 - “Change Control” features in Word

Schedule

Document	Baseline Date
SPP	10/10/2000
SPMP	11/01/2000
SRS	95% done
SDD	03/02/2001
System tests & Results	05/14/2001
User Manual	05/21/2001
Maintenance Manual	05/21/2001

Team Member Roles

Ryan Mahoney	Project Manager
Jaspreet Singh	Schedule Manager
Matt Palmerlee	Document Manager
Aaron McBride	Technical Specialist
Charles Smothers	System Specialist

Risks and Contingencies

Risk	Contingency Plan
Balance of school / work / family	Raise flag and get help
Sponsor requests lead to scope creep	Remind sponsor of the consequences of not being able to deliver
Our own enthusiasm leads to scope creep	Remind ourselves of the same thing!

Summary

- **Angus-Hamer's problem**
- **Task workflow problem/solution**
- **UNIX application environment**
- **ValleyData's internal processes**
- **Current Status**
- **Risks and contingencies**

FOR MORE INFO...

<http://valleydata.homepage.com/>