



LICENSE ASSET MANAGEMENT

CS 5340 SOFTWARE MAINTENANCE

SPRING 2025

TEAM 3: JOHN WILLIAMS

JWILLI11@UCCS.EDU

INSTRUCTOR: DR. ARMIN MOIN

TA: ARIFUL RABBANI



AGENDA

- PROJECT OVERVIEW
- SOFTWARE LICENSE
- ARCHITECTURAL PATTERN
- WORK BREAKDOWN
- RESEARCH
- QUESTIONS

PROJECT OVERVIEW



- **OPEN-SOURCE PROJECT** UNDERSTOOD WITHIN DOMAIN EXPERTS
- PURPOSE, WHO IS IT FOR?
 - ➔ SOFTWARE DEVELOPERS WHO NEED TO CONTROL WHO CAN USE THEIR SOFTWARE
 - ➔ SOFTWARE USERS WHO WANT TO USE SOFTWARE PRODUCTS CONTROLLED BY LAMS

OPEN-SOURCE SOFTWARE LICENSE

- THE GITHUB REPOSITORY CONTAINS A README.MD FILE WITH IMPORTANT PROJECT INFORMATION.
- [HTTPS://GITHUB.COM/COLBY13KING/CS5320-CODE/BLOB/MASTER/README.MD](https://github.com/colby13king/cs5320-code/blob/master/README.md)
- IT IS ALSO INCLUDED AS PART OF THIS PACKAGE.

COPYRIGHT 2024-2025 JOHNNY C. KING AND JOHN L WILLIAMS JR

PERMISSION IS HEREBY GRANTED, FREE OF CHARGE, TO ANY PERSON OBTAINING A COPY OF THIS SOFTWARE AND ASSOCIATED DOCUMENTATION FILES (THE “SOFTWARE”), TO DEAL IN THE SOFTWARE WITHOUT RESTRICTION, INCLUDING WITHOUT LIMITATION THE RIGHTS TO USE, COPY, MODIFY, MERGE, PUBLISH, DISTRIBUTE, SUBLICENSE, AND/OR SELL COPIES OF THE SOFTWARE, AND TO PERMIT PERSONS TO WHOM THE SOFTWARE IS FURNISHED TO DO SO, SUBJECT TO THE FOLLOWING CONDITIONS:

THE ABOVE COPYRIGHT NOTICE AND THIS PERMISSION NOTICE SHALL BE INCLUDED IN ALL COPIES OR SUBSTANTIAL PORTIONS OF THE SOFTWARE.

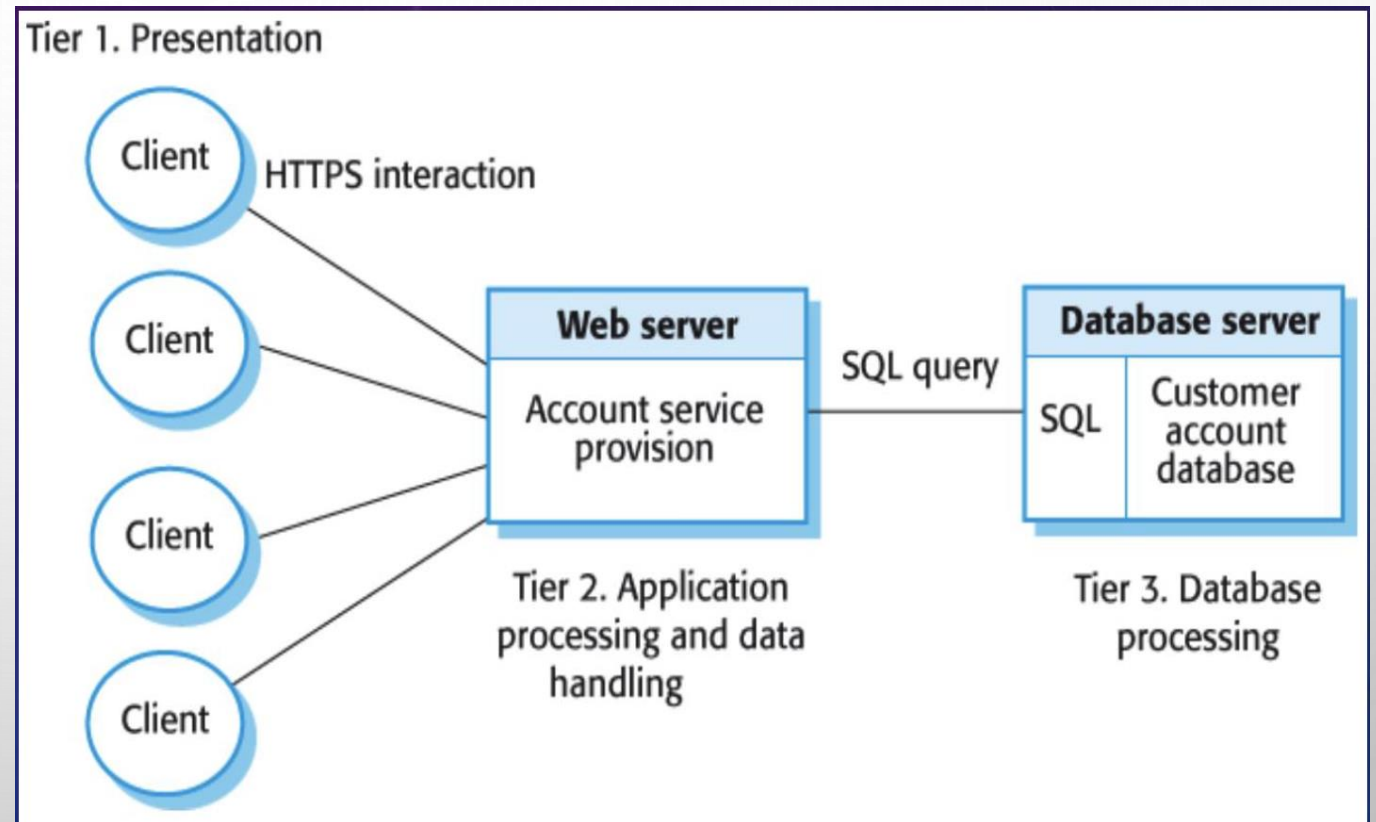
THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

THIS LICENSE IS ALSO CONTROLLED BY THE MANNING PUBLISHER LICENSE, WHO PROVIDED A GREAT DEAL OF GUIDANCE AND SOURCE MATERIAL IN THE CREATION OF THE APPLICATION. PLEASE READ THE DETAILS IN THE LINK PROVIDED BELOW.

[HTTPS://WWW.MANNING.COM/EBOOK-LICENSE](https://www.manning.com/ebook-license)

MULTI-TIER CLIENT SERVER ARCHITECTURAL PATTERN

- GOOD FOR LARGE VOLUME OF TRANSACTIONS
- ABLE TO SCALE AS MORE CLIENTS SIGN UP FOR THE SERVICE IT WILL BE BETTER FOR LARGER SCALE
- GOOD FOR APPLICATIONS WHERE DATA IS VOLATILE



WORK BREAKDOWN

ID	Description	Status	Work Breakdown	Completion Date
M-1	Review context and use case diagrams	In Progress	John	03/12/25
M-2	Unit test and document Navigation	Not started	John	3/12/25
M-3	Unit test and document the Cart	Not started	John	3/24/25
M-4	Unit test and document Administration	Not started	John	4/7/25
M-5	Unit test and document Security and Deployment	Not started	John	4/21/25
M-6	Review and close other tickets as time permits	Not started	John	5/7/25

Other:

Colby – GitHub, Jira

John – initial project set up

<https://uccs-team-cs5320.atlassian.net/jira/software/projects/SCRUM/boards/1>


The background is a light gray gradient. It features several realistic water droplets of various sizes, some with highlights and shadows, scattered across the frame. In the upper center, there is a faint, circular, textured pattern that resembles a ripple or a lens flare.

RESEARCH

USING TOOLS FOR MODEL DISCOVERY AND MAINTENANCE



PHASE1: TOOL IDENTIFICATION

- TOOLS THAT ARE CAPABLE OF EXTRACTING MODELS FROM EXISTING SOURCE CODE WILL BE IDENTIFIED.
 - SOME TIME WILL BE SPENT LEARNING TOOL CAPABILITIES AND LIMITATIONS.
- 



PHASE2: TOOL TESTING & EVALUATION

- TOOLS WILL BE TESTED AND EVALUATED FOR EFFICIENCY AND CORRECTNESS.
- 

PHASE 3: GAPS WILL BE IDENTIFIED

- GAPS IN TOOL CAPABILITIES WILL BE IDENTIFIED AND DOCUMENTED.



PHASE 4: PROPOSALS FOR SOLUTIONS TO GAPS

- NOVEL SOLUTIONS TO FILL THE GAPS IDENTIFIED DURING TESTING AND EVALUATION WILL BE PROPOSED.



PHASE 4: SUMMARY

- THE RESULTS OF THE TOOL TESTING, EVALUATION, AND GAP ANALYSIS WILL BE SUMMARIZED.

The background of the slide is a light gray gradient. It is decorated with several realistic water droplets of various sizes, located in the top-left, top-right, and bottom-right corners. The droplets have highlights and shadows, giving them a three-dimensional appearance.

QUESTIONS AND ANSWERS

The background is a light gray gradient. It is decorated with numerous realistic water droplets of various sizes, some clustered in the top left and bottom right corners. In the center, there is a faint, circular, embossed-style logo that appears to be a university crest or seal.

THANKS!

JOHN WILLIAMS – JWILLI11@UCCS.EDU