

Senior Capstone Project Proposal

Project Team ID:

Project Title:

Team Members

| Member | Name | Email |
|-------------|------------------|------------------|
| Team leader | Chance Biddle | biddck01@pfw.edu |
| Member 1 | Cayla Hale | haleca03@pfw.edu |
| Member 2 | Mary Johnson | Johnme09@pfw.edu |
| Member 3 | Ibigoni Inye-Tam | inyetp01@pfw.edu |
| Member 4 | | |

Faculty Advisor

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|--------------|------------------|
| Name / Title | Dr. David Q. Liu |
| Office | ET 125G |
| Phone | 260-481-0182 |
| Email | dqliu@pfw.edu |

Project Sponsor (Optional)

| | |
|----------------|-------------------------------|
| Contact person | Judith DeLury |
| Contact info | Judithdelury@levelup-meds.com |
| Company name | Delury Enterprise |
| Address | |

Project Description

| Type | Application development | Research-focused | Information systems |
|-----------------|---|------------------|---------------------|
| Abstract | LevelUp Meds is a web application designed for one or more caregivers taking care of one or more patients. Having multiple caregivers taking care of multiple people adds levels of complexity. This creates an urgent need to communicate vital information to all caretakers and medical providers for each care recipient. Communication among caregivers becomes critical to assuring quality care. | | |

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| Requirements | <ul style="list-style-type: none"> • UI/UX Enhancements, including: • Medications per Recipient • Upcoming Medications: Provide counts of upcoming doses within a set time frame. • Missed vs. Taken Meds • Audit Trail |
| Optional features | <ul style="list-style-type: none"> • Security: Implementing Two-Factor Authentication (2FA/MFA) for enhanced protection. • Accessibility: Including Text-to-Speech, Speech-to-Text, multi-language support, dyslexia-friendly mode, and adjustable font sizes. • Real time notifications • File Sharing: Send and receive attachments • Pinned Messages |
| Required resources (HW/SW) | <ul style="list-style-type: none"> • Frontend: Next.js, JavaScript, CSS • Backend/Infrastructure: AWS (cloud hosting, authentication, database) • Collaboration & Development: VS Code, GitHub (version control) |
| Technology disclosed? If so, what? | <ul style="list-style-type: none"> • API limitations or integration issues • AWS deployment/hosting complexities • Data security and HIPAA-like considerations |
| NDA or IP assignment agreement requested? | |
| Other notes | |

As a member of Project Team, I agree to attend project meetings regularly, participate in developing project actively, and make a full effort to complete this project as proposed.

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|----------------------|-----------|
| <u>Chance Biddle</u> | 9/18/2025 |
| Team Leader | Date |
| <u>Mary Johnson</u> | 9/19/2025 |
| Team Member 1 | Date |
| <u>Cayla Hale</u> | 9/20/2025 |
| Team Member 2 | Date |
| Ibigoni Inye-Tam | 9/16/2025 |
| Team Member 3 | Date |

Team Member 4 Date

As the Faculty Advisor, I agree to meet regularly with the student project team, manage their activities, and participate in the evaluation of project deliverables.

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|------------------|------------------|-----------|
| <u>David Liu</u> | <u>David Liu</u> | 9/19/2025 |
| Faculty Advisor | Date | |

As the Project Sponsor, I agree to communicate with the student project team as needed to provide information related to project scope, requirements, assumptions, constraints or other items that may impact project success, and to participate in the evaluation of project deliverables.

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|----------------------|------------|
| <u>Judith DeLury</u> | 09/18/2025 |
| Project Sponsor | Date |

Technology and ECCN:

"If your project involves 'technology' that is either (a) not publicly available or (b) includes proprietary source code (not executable files), then it requires an ECCN." 'Technology,' for this purpose, is defined as "information necessary for the development, production, use, operation, installation, maintenance, repair, overhaul or refurbishing of an item. Technology may be in any tangible form, such as written or oral communications, blueprints, drawings, photographs, plans, diagrams, models, formulae, tables, engineering designs and specifications, computer-aided design files, manuals or documentation, electronic media or information revealed through visual inspection."

Interactive tool to determine ECCN:

<https://www.bis.doc.gov/index.php/export-control-classification-interactive-tool>

NDAs and IP Assignments:

The sponsoring company typically has NDAs and IP assignment forms that it wishes to use. Neither the NDA nor the IP assignment is an agreement with Purdue directly; these agreements are between the students and the sponsoring company. Of course, our office can review the company-provided documents to be certain it aligns with Purdue's standards. Alternatively, our office has draft agreements which we could provide for the sponsor's use. Again, as NDAs are between the student and the sponsor, Purdue cannot be a party to or advise the sponsor or the student on the NDAs, other than to outline some basic expectations as to fairness and suitability of the NDA to a student project.

Sponsor Acknowledgements:

By way of background, Purdue University professors who have senior capstone class projects involving outside sponsor companies notify our office so that we can prepare an acknowledgement form for the sponsoring company's completion. This

is not a contract but an acknowledgement form signed by sponsoring companies which lays out Purdue's guidelines regarding class projects and outside company inputs, potential export control issues, and student intellectual property. Some sponsoring companies offer a monetary donation to the project, but that is not a requirement.