

INTRODUCTION

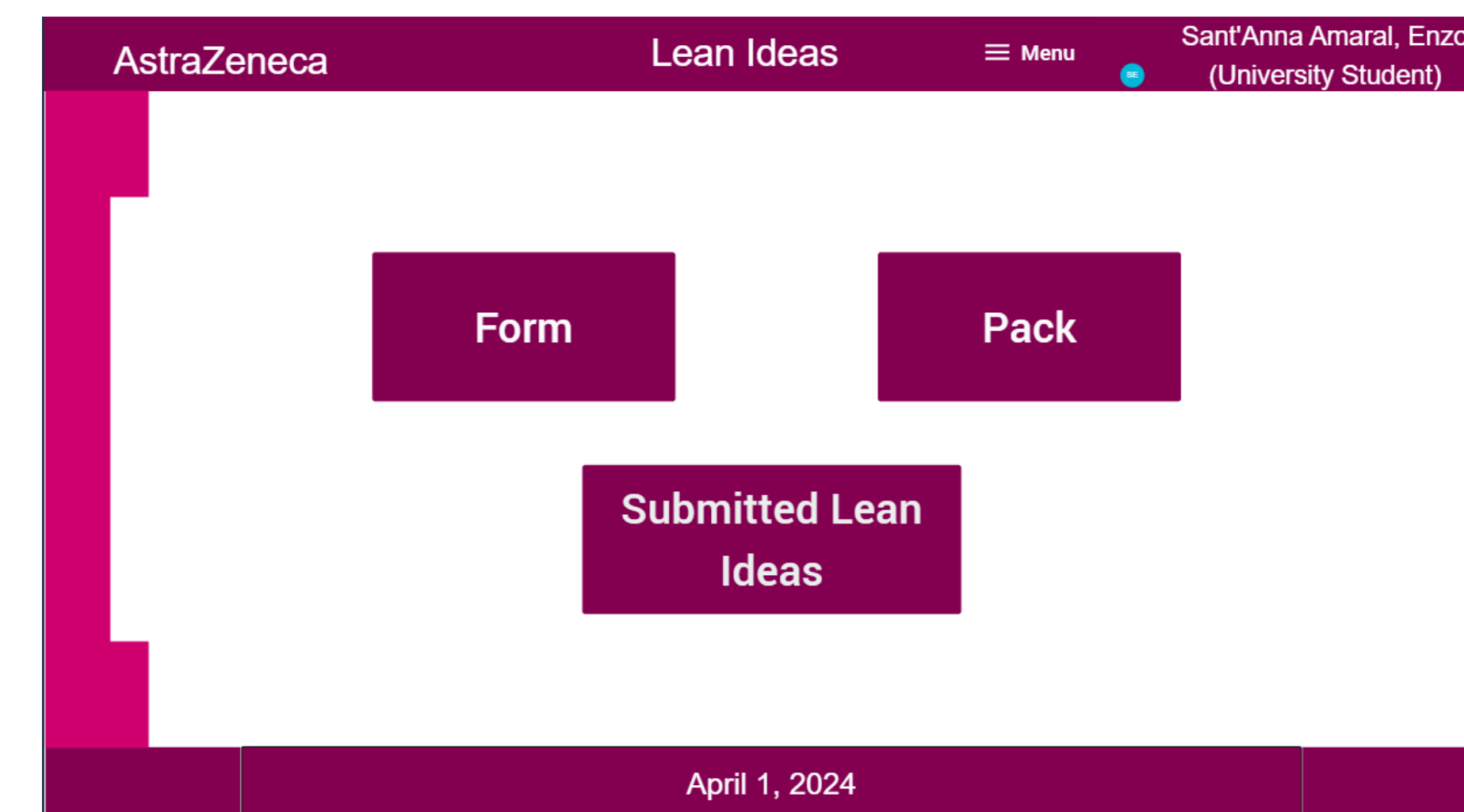
- AstraZeneca (AZ) is a global pharmaceutical company focusing on creating innovative medicines used by patients all around the world
- The Lean Digital team at AZ's Mount Vernon location has a program called the LEAN Card Program, which allows employees to submit ideas regarding work efficiency
- They wanted a place where they could see analytics regarding idea process time, number of ideas submitted, and other metrics all in one place
- The LEAN card program allows AZ to improve work efficiency and develop a better work environment for employees to be as productive as possible

METHODOLOGY

- Tulip is an advanced information visualization framework designed specifically for analyzing and visualizing relational data
- Tulip can work with very large datasets and different databases
- The 5 key tools in Tulip are – drag and drop interface, toolbar, context plane, step and record pane and the tables
- Implementing Tulip as the platform for managing lean card ideas offers AstraZeneca
 - a comprehensive solution to limitations encountered with SharePoint
 - its user-friendly interface ensures quick adoption and increased productivity among employees, without the need for extensive training
- Main benefits of Tulip are:
 - No-code
 - Cloud-Native
 - Edge Connectivity
 - Enterprise-ready

PROGRESS

- Auto-generated email notifications**
 - Implement in-app triggers which automatically email the creator of an idea when the status of the Lean Card is updated in the database.
- Implemented 10-day review requirement**
 - Develop app trigger which will initialize a counter for mandatory review after 10 business days when a Lean Card idea is submitted.
 - Implement trigger which sends a notification to the reviewer if a Lean Card goes past the review requirement deadline without being reviewed.
- Created database to hold values**
 - Developed a table to hold values whenever a form is submitted
 - Table values are accessed for sending emails, getting user information, submitting forms, etc.

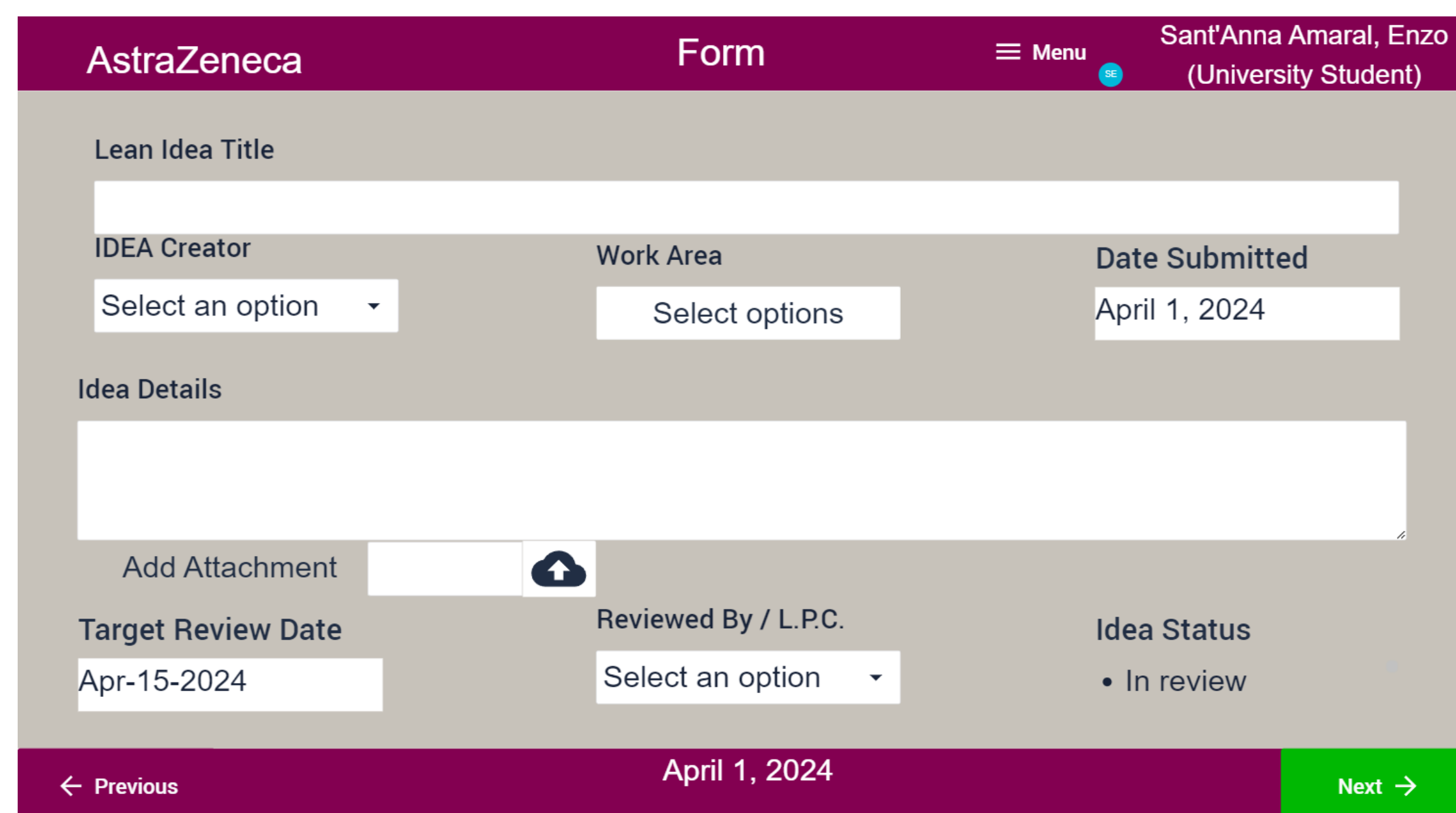


PLANS FOR THE FUTURE

- Finalize Search/Filter functionality**
 - Redefine areas for filtering
 - Implement search functionality within app by Idea Number, Title, Creator, Idea Details, for all departments
 - Re-structure current application so it is responsive to user input to update table query results in-app via personalized triggers
- Develop Analytics Dashboard**
 - Analyze current analytics functionality implemented for Lean Cards via Power BI and design a Tulip app which replicates current mechanisms using Tulip functionalities.
 - Develop and implement a dashboard to display analytics and metrics
 - Design and implement interactive graphics to display visual analytics.
- Determine and apply design theme to maintain aesthetic cohesiveness in solution**

CONCLUSION

- The final Tulip app contains forms that allow employees to submit LEAN cards with all the crucial fields and information
- Idea creators and reviewers receive emails when ideas are submitted as well as when the status of an idea changes
- The application contains different forms for different departments within AZ, which allows employees to fill in the necessary information for their fields



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