

# Problem Statement

While software that creates knit patterns does exist, there are none that create complex patterns.

## Resources

Tools needed:

Users having issues with pattern directions can ask for help with our AI assistant

Sarahy Simental

Tools needed:

AI(something akin to chatGPT)

- you input what you would like, and the AI outputs something based on the input.

Denesse Sosa

Recommend specific materials to user

- Yarn brands
- Tool brands

Sarahy Simental

Tools needed:

Research that the AI could use

- Knitting techniques
- Types of yarn(its thickness, material)
- Patterns classified as "beginner friendly"
- Knitting needle sizes & gauge

Denesse Sosa

Conform to Copyright Regulations:

Ask owners of knitting patterns used in research, for their permission

Denesse Sosa

## Advertisement/Promotions

Users with a subscription can gain random promotions

- 30%
- A free month

Sarahy Simental

Advertisement:

Have youtube knitters promote the app.

Denesse Sosa

Add a free- trial and subscription, to generate some sort of income.

- the trial could be 30 days

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## App Interface

Ask user to rate our website/app to improve and gain feedback.

Users can notify us about their concerns and what they like about the app

Sarahy Simental

when opening app for the first time, there will be a sign up(for subscription), or free-trial page.

Denesse Sosa

Ask the user what they would like to knit:

i.e.

- Clothing
- Stuffed animal

Sarahy Simental

Ask the user about their experience level:

- Experience level(beginner, intermediate, advanced)

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When creating a pattern, videos on techniques used would be under a header called, "quick reference"

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Ask the user techniques they would like to use

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## Interests

Ask the user what type of pattern they would like. Small or larger project

i.e.

- gloves (small project)
- sweater(large project)

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The Screen which lists out the proposed patterns, would include an ai-generated image, of what the pattern may look like.

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Ask the user to rate the pattern after finishing it.

Why?

So that the AI can continue to accommodate knitters' needs.

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## Final Screen

End result:

App lists out different patterns, each producing the same result.

-So that users that don't like to use certain techniques, don't have to if possible.

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End result:

App tells user the right materials to use for their pattern.

- Yarn type
- Knitting needles

Sarahy Simental

The garment patterns would include different size, and the amount of positive/negative ease(stretch or no stretch )

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**Solution** An app that creates not only simple, but complex patterns for knitters.