

<u>Understand</u>

1) identify the challenge & users

generate

goal: gather, observe, and research available information to find the needs of the user

artifacts: design requirements

2) find questions & tasks



5) compare and rank design requirements

choose a method for comparison: **pros/cons table**, **rank** based on your findings/user needs/tasks, **cross out** the list based on listed justifications, or **pick top 3** to keep and why. explain and review with a group or partner.

evaluate

!! is this the right challenge to tackle? is there enough detail? or too much? too many or not enough requirements? complete this worksheet again to refocus the project.

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<u>Ideate</u>

evaluate

goal: generate good concepts and ideas for supporting some of the project's design requirements

artifacts: ideas & sketches

1) select a design requirement 2) sketch first idea generate how might we address the challenge using the show how to address this requirement using an informal requirement? which questions would a user ask? revisit sketch - focus on the big idea not the details. this worksheet for each important design requirement. **!!** revisit this worksheet for all important design requirements for your project := 4) sketch a final idea 3) sketch another idea try another **sketch**, think of a new perspective, be think of a different abstraction. challenge constraints and different, do not build off of your previous sketch. assumptions to **draw** something new or surprising. **!!** is three enough? not always. have other ideas? fill out another worksheet!

5) compare and relate your ideas

for each sketch, break apart **what works well (+)** and **what doesn't (-)** in the **table** below. make connections. reflect on best parts. can you **combine ideas**? review the table with a partner or group.

sketch #1	sketch #2	sketch #3
combining ideas and sketches is not easy. sometimes it may en up new possibilities and ideas - guess what, ideate again!		

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5) build the prototype and check-in

are your **goals met** by the prototype? test with users if possible. are design decisions properly justified? do any need to be revisited? were any new constraints or limitations discovered? write down your progress and additional justifications below. review this progress and the prototype with a partner or your group.

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!! did the prototype meet its goal/s? measure its success. make sure you have addressed the design requirement. does the prototype try to do too much?

evaluate



5) consider a method to evaluate your system

take a look at the provided supplement of possible methods. how would you test your system? what would be a successful test of this system? write an evaluation plan here. talk through this plan with a partner or your group. if you have time: test with one or more users, summarize your findings, insights, and recommendations below.

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!! did any of the usability, integration, or aesthetic changes result in new ideas or requirements? revisit earlier worksheets as needed!

evaluate