

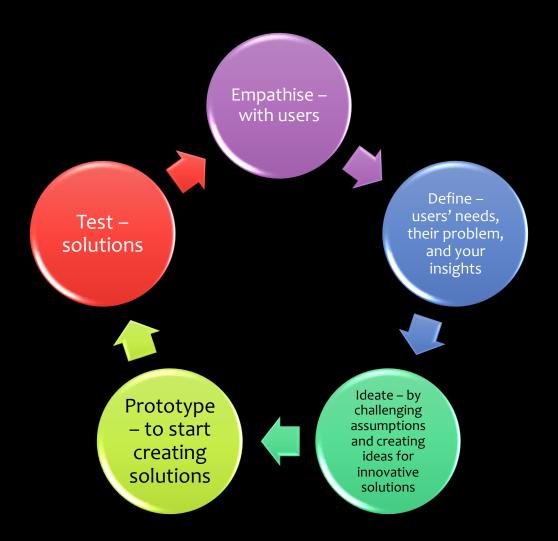
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PROGRAMMING AND LANGUAGES

- A **programming language** is a <u>formal language</u>, which comprises a <u>set of instructions</u> that produce various kinds of <u>output</u>. Programming languages are used in <u>computer programming</u> to implement <u>algorithms</u>.
- Most programming languages consist of <u>instructions</u> for <u>computers</u>.
- Thousands of different programming languages have been created, and more are being created every year.
- The ten most popular programming languages as: <u>Java</u>, <u>C</u>, <u>C++</u>, <u>Python</u>, <u>C#</u>, <u>JavaScript</u>, <u>VB .NET</u>, <u>R</u>, <u>PHP</u>, and <u>MATLAB</u>.

DESIGN THINKING

- gives solutions on how to deal and taking care of the issues
- provides a solution-based approach to solving problems.
- An iterative procedure in which we look to comprehend the client and rethink issues trying to distinguish ways on how to solve our problems.



PHASE 1: EMPATHY

- Developed an empathetic understanding of the problems that we are trying to solve for the users.
- It helps to set aside our own perceptions and gain understanding towards users and their needs.



Person	Problem faced
1	searching for information through the books to complete his tasks in any particular subject.
2	needs to memorize the way that he looks on the navigation map
3	difficulty of finding information related to employment

PHASE 2: DEFINE

- The Define stage will help the designers in our team gather great ideas to establish features, functions, and any other elements that will allow them to solve the problems
- Brought together all the knowledges and issues that we've generated and gathered through empathy phase
- we evaluated and synthesized our findings to identify the core issues we have found so far
- collect great ideas to set up apps, functions, or any other elements that will allow us to clarify the problems

PHASE 3 : IDEATE

- come up with ideas that may be "out of the box" to identify new solutions to our issue statements
- evolved to figure out the users and their needs, and we have evaluated and synthesized our insights
- brainstorm sessions we used to stimulate free thinking and extend the scope of the questions
- produce rational ideas
- At last, our group decided to proceed on inventing the apps to resolve the users' complications.



PHASE 4: PROTOTYPE

- This is an experimental phase, and the aim is to identify the best possible solution for each of the problems
- Produced a model using inexpensive product such as : boxes, tape, papers, etc..
- we have made imaginary Keyboard, Monitor and Apps.





PHASE 5: TEST

We've created applications that satisfied our users:

- solved transportation problem like anyone can call for transport from phone
- get information easily and much more faster and effortless
- can get job from our job-search site