COMPILEअभी

We are,

AbhiWARE

Abhishek **Kumar**

Abhinav **Jain**

Abhinav **Agarwal**

The LNM Institute of Information Technology

Project Overview

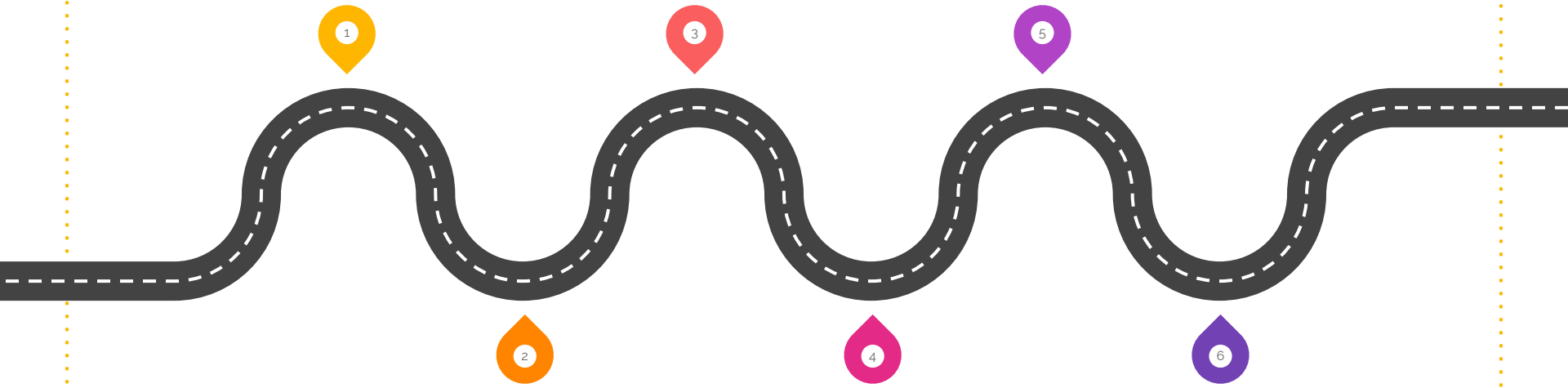
- We are going to build an **online compiler**.
- Anyone can use this compiler to compile the code in their preferred language.
- This online compiler can be used even if you do not have a high end computer, so anyone can use it to learn and practice coding without the need to spend a lot money.
- Hence using this coding can also be propagated to resource restricted areas of India and the world.

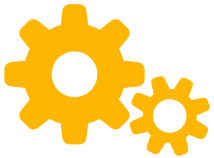
The IDEA

- Our compiler will support multiple programming languages.
- The user will be able to provide custom input.
- The compiler will generate the error if there are any in the code and will provide basic suggestions.
- If there are no errors then the compiler will generate the output of the code.
- The user will be able to find solution to errors from the editor itself providing them a hassle free coding experience.
- Thus our compiler will help user to increase their efficiency and productivity, which is one of the most basic issues that most of the existing compilers lack.

Solution Flow

1. There will be a client-server architecture with database deployed on cloud.
2. User will interact with the client side, he/she will write the code and provide input here and can search for solution from here only
3. This code and input when submitted by the user will go to the server along with the language.
4. There our server will execute the program and keep track time and space consumed while running the program..
5. There will also be options to store the program either in Raw form or compiled form for faster execution next time.
6. Now server will send the output to the client which it will show it to the user.





Tech Stack

- We will **React.Js** for the frontend and **Redux** for the state management.
- Our server will be created on the top of **Express.Js/Flask** and **Node.js/Python**.
- We will utilize **MongoDB Atlas** for the database.

Thanks!