## PEDAGOGY:

The program content will be presented by experienced faculty members from Great Learning as well as industry professionals. This ensures that the program combines academic rigor with practical industry relevance, providing learners with an exceptional learning experience.

During the sessions, the mentor will serve as the instructor, reinforcing concepts learned through self-paced content, introducing advanced topics, demonstrating concepts through examples, and addressing any doubts or questions to ensure effective learning.

The instructor will actively engage with the learners, encouraging them to share their screens and showcase their code. Additionally, the instructor will ask questions related to the fundamental concepts used in the code to assess and reinforce the learners' understanding.

The goal is to create an interactive and engaging learning environment where learners actively participate, apply their knowledge, and receive guidance from the instructor to enhance their learning outcomes.

## AIM:

Our aim is to foster a dynamic and engaging learning environment through a well-balanced blend of video lectures and online sessions.

We strive to provide a flipped classroom experience, where students have the opportunity to watch the pre-recorded video lectures prior to the live sessions. During the live sessions, the instructor will reinforce the key concepts by working through examples and problem-solving exercises. This approach allows for a deeper understanding of the concepts as the instructor revisits and emphasizes the important points and principles involved.

By actively involving students in problem-solving activities, we aim to enhance their comprehension and retention of the subject matter. Our goal is to create an interactive and collaborative learning experience that facilitates a comprehensive grasp of the material and promotes a strong foundation for further exploration and application.

## Positives:

By revisiting and reinforcing concepts, we aim to ensure a solid understanding of the subject matter. This approach allows learners to strengthen their knowledge and build a strong foundation.

Additionally, our focus on creating a practical class environment enables learners to apply their knowledge in real-world scenarios. Through hands-on exercises and problem-solving activities, learners can gain valuable experience and develop practical skills.

Overall, this combination of concept revision and practical application cultivates a robust learning environment, where learners can enhance their understanding and proficiency in the subject matter.

# DAY WISE BREAKDOWN

| **Day 1:** Introduction to TypeScript and Single Page Applications (SPAs)   * Overview of TypeScript and its features * Understanding the benefits and usage of SPAs * Live coding session to demonstrate TypeScript and SPA concepts |
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| **Day 2: Component-based UI Design and Unit Testing Basics**   * Explaining the concept of breaking UI design into components * Introduction to unit testing and its significance * Live demonstration of writing basic unit tests for components |
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| **Day 3: Test Execution, Test Coverage, and Best Practices**   * Running tests using the testing framework * Analyzing test results and understanding test reports * Exploring test coverage metrics and improving code coverage * Best practices for writing effective and maintainable unit tests |
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Please note that the duration of each session can be adjusted based on the pace of learning and the depth of coverage required for each topic.