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Ans:
The problems and challenges that software engineers are likely to face in the 21st century are;

1. Legacy systems:

The majority of software systems which are going to build or develop in 2021, were maybe developed before or many years ago. Now the legacy challenge is the challenge of maintaining and updating these softwares in such a way that excessive costs are avoided and essential business services continue to be delivered.

2. Rapid techonlogy advancement:

Every technology advancement is a blessing for the IT industry. But at the same time, technology evolving at a phenomenal rate leads to an

added pressure for software development professionals to leverage these upcoming technology trends in software product development to gain a cutting edge over competitors and stand out in the market.

3. The trust challenge:

As software is intertwined with all aspects of our lives, it is essential that we can trust that software. This is especially true for remote software systems ass. accessed through a web page or web service interface. The trust challenge is to develop techniques that demonstrate that software can be trusted by its users

4. Heterogenety:

Systems are distributed and include a mixe of hardware and software.

5. Delivery:

there ~~is increa~~ is increasing pressure for faster delivery of software.

To solve these problem engineers ~~we~~ should have ~~fottowe~~ follow the systemetic apperoches to develop the system. Proper & software process model selection could be helpful.