



Sigma Sustainability Institute

Cowrks Centre, RMZ Infinity, 5th Floor, Tower B,
Old Madras Road, Bangalore – 560 016

www.sigmasustainability.com

Assessment - Senior Full Stack Engineer

The following assessment is to assess the engineer's capability to design a Web application solution based on the high level requirements.

Purpose of this exercise

1. to access the ability to comprehend requirement
2. to able to solution architect with key design attribute considerations
3. Ability to identify of user flow and backend data structures

Requirement for the assessment

1. For a mall. to come up with Locker pre-booking solution to safely keep the luggage of the visitor to the mall.
2. User Signs up with important details (user can be same nationality or from a different country)
(identify attributes required for sign up)
3. Go to prebooking locker option
, View the different dimension Locker with capacity, pre-book the locker and proceed for payment
4. Receive confirmation with QR code which will have details about locker booking.

Expected outcomes

1. Candidate can choose any payment gateway he is familiar with for design, confirmation
to describe the use case, solution architecture and HLD
2. Candidate should give backend Data structure and front end UI samples including main operations required.
3. Any key design criteria and attributes for consideration
4. Solution Architecture
5. Any outcomes for dashboard and reports