



*Company Name: TestReach*

*Project Title: TestReach Candidate Authentication and Notification*

*Prototype Funding: Enterprise Ireland Innovation Voucher*

TestReach has a unique online application that provides online exam supervision and testing capabilities over the web. Candidates take exams online observed remotely by trained supervisors. This new online testing tool set is built to support educational bodies, corporates and associations.



#### PROBLEM TO BE SOLVED

The company had identified a number of areas in which it would like to enhance its current offering such as, enhanced user authentication and management environment, and a scheduling system for email and short message system (SMS) notification.

TestReach wanted to see these functionalities along with some design recommendations on future functionality such as the ability to log test exam events and user behaviours.



#### HOW GATEWAY DELIVERED SOLUTION FOR INDUSTRY

The gateway research team produced a Technical Requirements / Design report and a prototype developed in software of concept of the Candidate Authentication and Notification project which included the following requirements:

- a) How to provide an encrypted link between the TestReach system and Test Candidates/Supervisors/Admins browser.
- b) How to provide an authenticated and authorised user management environment.
- c) How to provide an email and SMS scheduling and notification system.

Prototype software written in NodeJS was incorporated into a test platform of the hosted TestReach software as a service (SaaS), and demonstrated the requirements set out in the technical requirements report.

#### IMPACT FOR THE COMPANY



Testreach were able to demonstrate to potential clients that their new online offering was secure, both from a browser link perspective but also in the manner that user authentication and authorisation was performed by their SaaS platform. Having multiple modes of communicating with the test candidates (email and SMS) showed the platform to be in a mature state and was a factor in helping them win new business