BUSINESS REQUIREMENT SPECIFICATIONS

**DIGITAL EXAMINATION**

**SYSTEM**

BRIGHTCOM GROUP LIMITED

NANAKARAMGUDA

www.brightcomgroup.com

VERSION 1.1.0

| VERSION HISTORY | | | | |
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| VERSION | AUTHOR | DESCRIPTION OF CHANGE | DATE | APPROVED BY |
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# **1.Introduction**:

# Digital Examination System is a software application which allows a particular company or institute to arrange, conduct and manage any examination via online. In this module a candidate can be given digital exam of a particular subject and get the results instantly through which the user can know his/her potentials and how much more effort he/she needs to put in to get better marks. The purpose of this document is to outline the business requirements for the development of an digital examination system with two main user roles: Admin and Candidate .Digital examination both admin and Candidate have to register and after that they must login with their username and password. Admin will allow too add questions to the question bank and view added questions. Admin will provide “Username” & “Password” for candidate so that they can login & start exam. Here “username” & “password” will work as admit card before examination.

# 2.Abstarct :

* Digital examination system allows the facility to create modify and store questions which can be group together to form sections and these sections can be group together to form test /Examination .
* Digital examination has been developed for conducting multiple choice online test.
* More the one option can be correct but the candidate can select only one option.
* This provides time limit. The candidate can see their results after completing the exam. This helps the candidates to write the exam from far distance and which can provide security and simplicity and other beneficial feature to the candidate.
* It has got three sections:-
  + - * + English
        + Mathematics
        + Technical With time limit for each section.

# 3. Home Page:

* Welcome message and a brief introduction to the digital examination system.
* Highlights of the system's key features and benefits.
* Quick links to login or register for new users.

# 4. Candidate Authentication :

* Candidate login form with fields for username/email and password.
* Candidate registration form with fields for username, email, password, and any additional required information.

# 5. Candidate Dashboard :

* Personalized dashboard for each user after logging in.
* Display of upcoming exams, exam results, and user profile information.
* Navigation to different sections of the system, such as exams, results, and profile.

# 6. Exams:

* List of available exams, including details like exam title, subject, date, and time.
* Option to filter and search for exams.
* Access to exam instructions and guidelines.
* Start and submit buttons for taking exams.
* Timer display during the exam.
* Question navigation (e.g., next, previous, or jump to a specific question).
* Submission confirmation and review before final submission.

# 7. Results:

* Display of exam results, including scores, pass/fail status, and detailed performance analytics.
* Ability to view past exam results and download result sheets.

# 8. Exam Creation (Admin):

* Admin-only Section to create, edit, and manage exams.
* Add and edit questions, specify correct answers, and set question types (e.g., multiple-choice, true/false).
* Schedule exams, set time limits, and define passing criteria.
* Access to result data for all exams.

# 9. Logout:

* Option to log out and return to the login page.

# 10. Footer:

* Contact information, copyright notice, and links to social media or community pages.

# 11. Requirements:

# 11.1. Hardware Requirements:

* Processor: i3, i5, i7 processor
* RAM: 8GB+
* Hard Disk: 200GB

# 11.2. Software Requirements:

* Front-end: Using HTML, CSS, BOOTSTRAP, and REACT JS for responsive website.
* Back-end: Using Node.js responsible for handling user requests, managing the application logic, and interacting with the database.
* Database: MySQL will be used as the database for handling information as an integrated whole. Database we store the data be organized around user requirements.