**Functional Requirement of Assessment Portal**

Assessment portal is a kind of software where teachers can insert question for their regular use. They can prepare question papers and take online examinations from there inserted questions for learners to assess their formative & summative learning condition. Users of this portal is universities, schools, colleges, others educational institutions and individuals.

**Phase-1**

**Requirements:**

1. There should be a Super admin (Dnet Authority) who will create admin (Institutional Admin) to use & control this service. This admin can see all the activities of all users. Can make any sort of change, delete or add (e.g. Teachers User Panel, Students user panel, Any Attribute of students and teachers record) anything. And Super Admin Will be able take any sort of change or edit of any institutional panel.
2. Admin will create sub users (Teachers) and allocate their class and subjects to prepare questions in their institutional panel using this portal. Admin can see all the questions of all classes. And sub users (subject teachers) can see only there prepared questions in this system.
3. Sub users can use their subject related questions in regular assessment procedure. Super Admin will decide whether s/he or the subject related teacher is going to prepare terminal examination questions.
4. Sub users can assign their subject and class related students in online examinations. Meanwhile with the permission of super admin sub users can or super admin can take online examinations of desire class’s desire subject’s examinations.
5. After insertion of questions users can retrieve these questions to make a question paper both for summative and formative assessment.
6. Teachers can take online examinations to their students through using this service.
7. Question Pattern: There are 70 books in secondary grade education. Some subjects question is in similar pattern in different grades and some are not. So all patterns have to identify so that teachers can easily insert & prepare & retrieve questions from it.
8. **Panel:**

Five panel:

1. Super Admin Panel: Dnet Authority
2. Admin Panel: Institutional Head: To control the system
3. Teachers Panel: From where teachers can insert their questions and retrieve questions both for question paper and online examination
4. Students Panel: From where students can attain in online examinations and records(Scores) may be kept for further use by teachers.
5. Institutional Panel

Super-Admin will control the whole Panel. Admin will control Institutional Panel. Sub (Both students and all teachers) users have to registration to keep their data in this panel. They have to registration through sign up procedure. Institutions will select their necessary fields from a top down menu for sub users’ registration. So that institution wise it will be different.

If any student or teacher will not be able to insert their record then Admin will take necessary steps to insert their records. (Admin reserves the right to insert/ Add/ Delete of any users.)

1. **Student Migration/ Promotion:**

Promoted students of next class will be able to change their records within a given period by Admin. There they will insert their new Class, Roll No., Section etc.

But their previous records such as marks, results, document (HW, Assignment, Report) will be kept in their panel and teachers panel according to their class & roll number

1. **Sign up Procedure:**

Teachers and students have to select their institution name from top down menu (Name will be enlisted in top down menu after the institutional registration and panel activation [Institution registration is manual procedure, proceed over phone]. So there will be a common page for everyone. There they can see the utility of this package. And a user name and password insertion box for super admin. Sub users also will get an ID & Password by Software. Through which they will be able to go their subject related question insertion panel)

1. **How Admin will select subject related teachers:**

After the registration (Sign up) and approval a list will go to admin’s end. There will be a button like ‘Approve for question Insertion for assigned subject’ or ‘Select subjects’ to assign a new subject and class to prepare questions of another subject and class.

1. **Who will insert students’ records:**

Students will insert their own record after selecting the institution from landing page. There they will get the desire fields (Selected by School Admin) for Registration. Those filled form will get back to admin’s panel for an approval. If admin approved them they will automatically sorted according to class, sec, roll, and shift according to genre.

Each and every year student will register their account due to their new changed identity.

(Same as Teachers Record)

Super Admin & Sub Related teacher both will be able to approve students request to join in the system.

1. **How Teachers will select required students for Online Examination:**

Teachers will go to his own panel. There s/he will select firstly Class, Secondly Section, groups and other genres to reach those group of student. Then they select “ALL’ or individual students by clicking radio button.

How much web view is situated here?

1. Common web view (for sign in, sign up and utility of the panel)
2. Admin Panel (Access Capacity: Only Admin)
3. Question Insertion Panel (Access Capacity: Sub related teachers for only their own subjects, Admin)
4. Question View, Selection Panel for preparing Question Paper(Access Capacity: Do)
5. Online Examinations (Access Capacity: Do)
6. Students Panel:

Student will only use it just for taking part in online examinations. No other Activities will happen in this phase. S/he will get a notification from his teacher about (Exam name, Type, Time limitation, and the time to attain in the examination.) Teachers will send a question to his end. If the teacher mention exact time to attain the examination. S/he will not able to open the question before the time. And his/her examination time will be end according to teachers’ decision. Teacher can add a time counter [Back calculating] for maintain the time period. Software will generate the taken time of students for an examination to teachers end. As well as teachers will select the procedure whether they will be able to see the right answers of MCQ or not.

1. **Question Insertion Procedure:**

Teacher will insert different Chapters questions. And at the end of the making question s/he will select the ‘Unit no. & Name’, ‘Chapter No. & Name’, ‘Lesson No. & name” from a pull down menu. To get these in a pull down menu s/he have to enlist these previously in chapter gridline.

As there are several types of question pattern in teachers will get the appropriate pattern according to subject and class. Further they can create their own pattern thyself. All types of pattern will be situated there and they can select those (and Insert their desire number of questions).

For Formative assessment and online examinations teachers can select any items of any patterns questions according to their need.

**This system will go under the name of ‘Thyself Question Development’ which will be presented in Admin, Sub Users (Teachers) panel. After clicking on in teachers and admin can go through the system. Actually in future this will be used as a package in whole software.**

1. **View of Question Bank:**

Under each of the lesson Super Admin and subject related teachers will get the all sort of question-patterns of that particular lesson. Students will not be able to see any question without their assigned online examination.

1. **Question Sorting from Question Bank:**

By the side of each questions there will avail a radio button to select. And a bar will came in widow that contains total required numbers, already required and questions have to require. So that it will be a user friendly procedure as the total view list of questions of a book is too large for users.

Users can pull questions according to their need. And also they can pull out questions according to board rules.

1. **Editing, Add instructions Interface**

After sorting questions from the question viewing panel users will get the questions in an editing interface so that users can change it, edit it or delete that.

1. **Questions Marking Issue**

Teachers will be able to add question marks by the right side of each & every questions. Simultaneously if s/he wants to prepare question according to board rules and regulation software will generate the number according to board rules. But in user interface s/he can edit that marks

1. **Add banner at the top of the question**

Institution will be able to add banner (Institution name, logo, Address, EIIN Number, Established year- Whatever they want to add)

1. **Question Related Information**

Examination Name, Time, Total Marks, Specific Instructions can be added

1. Then they will be able to Save, Print or Download Those questions.
2. **Question sending Procedure to students:**

Teachers will be able to send questions to their students for online examinations. They will select group, class, section and then select students by clicking radio button.

1. **Homework Administration in a Shorter Version**

Teachers will be able to receive any sort of homework (Assignment, Report, etc. in word, pptx, pdf format) from their student. In this manner student will select their teachers from this panel and submit documents to that teacher.

On the other hand according to the record of student hws will be sorted and teachers can see that.

1. **Landing Page:**
2. In this Landing page there will be place for Home, About Us (Image, Text, Info Graph- Shorter Description about this portal, about Kite BD, Dnet, About Kite Bd Team), Benefits (Image, Text, Info Graph- Client wise Benefits), Programs (Question Bank, Homework Administration, Online Examinations, Materials Upload, Notices Upload, Students Record, Lesson Plan & Activity Plan Upload, Curriculum-Syllabus-Students Activity plan upload, SMS Services, Online Courses, Online Quiz Competition, Thyself Question Development & Allocation), Contact Us (Info Graph, Text, Images- 1. Message sending option to Kite Bd 2. Address and contact number for any information), Teachers Corner, Students Corner, Campus Corner, Parents Corner (Will be Developed in 3rd Phase), Instructions (Info Graph, Text, Image- 1. Answering Procedure of Creative Questions, How to use this Platform, Guideline to prepare creative questions, How Students and Parents will be benefitted through this software), Logo-Slogan of Kite BD, Online Examination Code, Sign in and Sign up, A place to provide Photo/ Highlighted Notices/ Advertisement Archive

**Phase 2:**

1. **Students Own Panel Full Version**

Students will be able to see their tasks request send by teachers

Can send their tasks to teachers (Both through interface use and documents send) (Homework Administration)

Home tasks, Assignments, Reports will be save in their panel.

All notices send by all teachers, institution will be floated in their panel.

Students will be able to see all notification (Pending Tasks, New Tasks) in their panel.

Students can see their feedback and marks provided by teachers.

(Future Issue: These marks may be sent to ‘Result’ (Connecting Parents New Version)

Students will get their current year’s routine automatically according to Institutional Routine Plan.

And According to Routine plan they will be attached to their related subject teachers automatically. (In case of newly enrolled students request will be automatically send to teachers end).

If the routine is not available for any reason teachers and students both can send requests each another. An approval is needed from both end.

By the by any other institutions, individuals (If they are using this software) will be able to attach with that particular student.

1. **Sub Teachers own Panel Full Version**

Teachers will be able to send home tasks to their students.

Students will send home tasks to teachers end,

Teachers will check those and provide feedback and marks. These marks will send automatically send to students end. If teachers want they can provide those marks through SMS services to students parents or students contact no.

These marks and all other records (Documents) will save in teachers end for further use. And teachers can convert marks in percentage or any other marks. Those marks will be saved for future purpose.

Teachers will get the notices send by the institutions.

Teachers will get notifications of home tasks send by students.

Teachers will be able to provide any sort of notices to his/her students. (Only those who are attached with him/her [May be a single student or a group{a specific class}])

1. **Parents Panel/ Individuals Panel**

This panel is not any broad system. This will be created for the monitoring of Super Admin Panel. They have to sign up with a new id & Password. In their panel they will be able to get all of the packages. They can send request anyone (Those who are using this panel). Then they can send notifications, bulk sms services, homework administration services etc. They will not get any Institutional panel.

1. **Homework Administration Full Version**

Teachers will be able to send questions (any sort of question taken from this panel or self made question), Assignments, reports (notices) through this system.

Students will send their assigned tasks through different documents (word, pptx, pdf, Homework send through using this systems interface).

Teacher will check those, provide feedback and marks.

Students can see those feedback and notices.

The marks will be saved against each students record for future purpose of teachers. (With the name of Assignment/ Online exam/Report including DATE)

Note: In future These record may be attached with RESULT system of Connecting Parents. Sufficient channels should be opened in this circumstances.

1. **Marks & Record savings**

Written in previous Paragraph.

1. **Different Notices Send to Web**

Teachers can send notices to specific students or group of students. They can also send notices through Institutional panel (An approval is needed by admin in this circumstances)

1. **Bulk SMS services for sending exam result and other notices to student’s parents and students**

Clients (Without Students) can use this service to provide notice, Students exam result, etc. they can select a single student or a group of students or some specific students or parents etc.

**Phase 3**:

1. **Different packages will be offered to clients to retrieve questions (Clients Level Wise)**

Minimum 30 types of packages will deploy in this system. There are specific packages for clients according to their identity (Teacher/Student/Institution/Parents/Individuals)

According to their user identity they will be able to see different types of packages.

They will pay through bkash or manual system will deploy (Over Phone) here.

1. **Clients can retrieve questions from question panel through using different packages.**

According to package characteristics clients will retrieve question in different way.

Actually a huge system will deploy here. Because a single user cannot avail in all type of packages. So there are lot of ways will deploy to pull questions from the system.

1. **Teachers Corner**
2. Info graph, Text, Images- How Teachers will be benefitted through this software, Guideline to prepare questions
3. Both Doc Upload & URL for Hyperlink : Education Policy, National Curriculum, STSC, Kite BD, Dnet
4. Only URL- Sikkhok Batayon, NCTB, NAEM, NAPE, BANBEIS, MoPME, DSHE )
5. **Students Corner**

(Info Graph, Text, Images- How to Use this Platform in your Learning, How Students will be benefitted through this Software, How to answer creative questions)

1. **Schools Corner**
2. Schools Panel- Presenting All Schools logo & Name that are using this service-> Users Sign in & Sign Up (Password requires and Request Send to Clients- Institutional Panel
3. Questions- Institutional Wise Packages with short descriptions, Sign in & Sign up, Questions Platform)
4. **Campus Corner**

DO

1. **Parents Corner**

Do

1. **Online Quiz**

Online Quiz system is an advertisement criteria of this portal. According to dnet’s online examination system this quiz will be designed. Students will get the opportunity to attain this system after creating an user id in this system. According to his class he can attain in this exam. We planned to provide different class’s tests in different day. Without creating an ID no one can access in this examination system.

The winners photo(With name, Institution Name, Class) will be advertised in software. And anyone can share this in social media.

1. **Online Course**

Online course will be designed in MCQ type Question Answering System.

There will be situated a story with or without pictures, images, diagram, info graph etc. At the beneath of that some MCQ pattern questions will be given. Learners cannot go to next question without answering the previous question correctly. So that before the answering the correct one s/he has to answer several times. Question number is unlimited for a story/passage.

There might be several pages like this to complete a lesson.

There might be several lessons to complete a chapter.

There might be several chapters to complete a Unit.

There might be several units to complete a single course.

After finishing the course they can take a certificate through this software.

So a certificate design is needed for that reason.

Software will save his/her record (Starting Date, finishing date) in this manner.

According to his user name, and other attributes software will automatically generate his/her certificates.

May be s/he has to pay through bkash for accessing in the system.