IFB 399 – Capstone Project (Phase 2)
Assessment 3 – Final Project Report
Biky Tech

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Website Live Testing

The Website can be access at http://bader.space (the project files will be deleted from this domain after the end of the semester)

These accounts can be used for testing.

Admin Account: admin@admin.com

Admin password: 12345

Client email: enjoy@baderalkandari.com

Client password: 12345

1. Introduction

The Capstone Project selected by Biky Tech, consisting of Bader Alkandery, Ivan Fadilla, Khaled Alblowy and Yaser bin Hamed, is categorized in the education industry and focuses on educating parents to reach parenthood as well as achieving their goals which is to build a strong and healthy relationship with their children. In addition, the business also considers developing children's emotional intelligence as a high prospect. It has programs that are based on current research in neuroscience, psychology and education.

The client currently has the business delivered face to face in small groups, but it is found challenging since it involves putting more effort and time from the parents to reach these meetings. The parents usually are working and occupied with other commitments that it might be overwhelming to add one more commitment which is attending a course outside their comfort zone. However, the supervisor aims to reach more clients by simply making them able to undertake these programs in home or their preferred place and time. The aim of the business is to provide parenting programs remotely that can be accessed via a website. The online programs will explore ways and concepts to improve parenthood that could be accessed at any time and place convenient to the parent.

Therefore, in order to achieve the client requirements, the prototype was created to develop a view of the expected website design by using Adobe XD and a HTML/CSS template to start developing the website using Adobe Dreamweaver. In addition to the prototype and template, User stories were produced with the understanding of the user perspective. Later the codes had been generated by using bootstrap which uses HTML, CSS, and JavaScript to develop the website pages. At the backend, we used php, MySQL and is managed by phpMyAdmin. The website is running and finalized and ready to use by the product owner. Overall, the above technical aspects were used to develop the whole project.

2. Project Outcomes

The outcome was almost as planned in the first semester. The website is up and ready to use according to the plan constructed in the first semester. It is now a responsive web application that can be utilized on multiple screen resolutions. It includes a quiz which was the focus of the project and the business. It uses questions/answers that are designed by the parenting coach to determine the parenting style of the parent in which they will be recommended to online course and materials that are suitable for their style. Moreover, the coach can design their quiz and post it to the public whenever wanted without any need of technician.

The website has three different users, admin, registered users and visitors. The admin side that helps the owner to add, modify and delete, content such as blog, courses and quizzes. The admin side has control over the website in a way that the owner needs. For instance, the admin could grant/remove access to/from users respectively. However, in this way the owner does not need a technician to do basic things. The registered users and visitors can browse the website and take the quiz when they want to see their parenting style. They can see blogs, anything related to the business and events conducted by the owner. However, the registered user has more advantage such as accessing online courses and their profiles.

3. Project Progress (Phase 2)

After the completion of planning and designing in phase 1, the aim was to fully develop the website as planned in phase 1. We have started the developing process at the beginning of the semester. The weekly meeting was very helpful in the completion of the project. The very first process was creating a project timeline which was significant. The project timeline helped us to complete the task and to keep everyone on track. As the project was to develop, the most task was coding in order to develop the process. The tasks were equally contributed by the team. We have begun developing with the most difficult functions. Quiz was one of the most difficult and challenging function of the project. We had face difficulties in making decisions in order to develop this (Quiz) function which includes calculation, number of questions, number of options, types of question etc. though facing these difficulties we have managed to complete the quiz in sprint 5. The below sprint table describes the list of tasks (with description) we have planned and completed in order to complete the project.

The Development and Testing phase of this project are divided into several sprints, each sprint duration varies depending on certain tasks and the availability of members within the team.

Sprint number	Week	Date
Sprint 1	1, 2, 3	22 July 2019 – 11 August 2019
Sprint 2	4, 5	12 August 2019 – 25 August 2019
Sprint 3	6, 7	26 August 2019 – 8 September 2019
Sprint 4	8	9 September 2019 – 15 September 2019

Sprint 5	9, 10,	16 September 2019 – 29 September 2019
Sprint 6	11, 12, 13	30 September 2019 – 20 October 2019

The following table demonstrates how the group has planned the project with tasks that is needed to be done in each sprint and tracking the progress we have made throughout the phase, this includes a list of completed tasks and comments on certain issues we have found during the sprints.

Sprint	Tasks (To be done)	Completed	Comments
1	1.Update UX design	Changes to design to make the UX better + Website pages + some linking.	Mobile responsive design issue found on home page nav + Quiz banner
1	1.Link pages for the navigation bar 2. create admin access login 3. Update mobile responsive issues	Most Website linking done. + admin login. + Fixed mobile responsive issues	
1	1. Connect Signup form with the database 2. client's login 3.client profile	1. Connect Signup form with the DB 2. client's login 3.login access for clients and Admin	Issue found with sign up (DB insert error) it was working perfectly before!
2	1. User and Admin Update profile data + database connection. 2. Email verification 3.Design quiz database 4.Design HTML/CSS if required	1.fixed sign up insert issue 2.Email verification 3.user&admin profile update 4.Quiz database draft design. 5.home page Quiz banner design changed.	
2	1.Blog DB design 2.Admin Add / Delete / Edit Blog 3.working on Quiz 4.Design HTML/CSS if required	1.Blog DB design 2.Admin Add / Delete / Edit Blog 3. edit Blog PHP file to display on click. 4.DB for Events/Contact us/ Face to face Courses. 4.Design HTML/CSS	Database design for Events/Contact us/ Face to face Courses finished earlier.
3	1.DB for Events/Contact us/ Face to face Courses (done last week) 2.Admin Add/edit/delete events	1. clients Forget password via email. 2.Admin Add/edit/delete events	1.Extra function Forget password for clients 2.issue: Blog is not displaying txt format

	3. Quiz 4.Design HTML/CSS if required	3. quiz database finalized. 4.Design HTML/CSS	
3	Shifted to week 9/10 to finish the quiz	1. quiz database tables done (quiz, Questions, collect answers) 2. Admin Add/edit/delete quiz + Add/edit/delete questions 3. PHP/CSS	//W7+8 will be moved to next week as quiz is higher priority // product owner found issue with quiz calculation for answer (N)
4	Shifted to week 9/10 to finish the quiz	1. clients can do quiz 2.save results to DB 3. Admin can view quiz results as list 4. PHP/CSS	//admin should be able to see each question answer // product owner requested to change the headings for each parenting style page
5	Extra function: admin view detailed client quiz result. (Finalize quiz) 1.Admin add/edit/delete: Online course 2. Admin add/edit/delete: face to face courses 3.clients view online course 4.Admin manage access to clients to view the online course – (update DB) 5.Contact us form. 6.Search function 7.admin view/delete contact us messages 8.Design HTML/CSS if required 9. Fix Blog Format display	*. Quiz calculation fixed *. Quiz/ new parenting style added with calculations. *. PHP/HTML page added for new parenting style (Strict & Assertive) *.PHP & HTML edit for all parenting styles. 1.Admin add/edit/delete: Online course 2. Admin add/edit/delete: face to face courses 3.clients view online course 4.Admin manage access to clients to view the online course – (update DB) 5.Contact us form. 2 6.Search function 7.admin view/delete contact us messages 8.Design HTML/CSS 9. Fixed Blog Format display	// product owner requested to add one more parenting style.
6	Catch up- if went under track – and test functions and fix issues if founded. 1.admin can change contact us details + social media links.	1.admin can change contact us details from the admin side. 2.admin can change social media links from the admin side.	

	2.Finalising project.	3. admin can change logo from the admin side.	
6	preparing for final report and presentation + handling project		

4. Artefact Description

Quiz

This is the main feature of the website requested by the project owner. This feature allows website visitors and members to take a quiz to identify their parenting styles. The questions, answers were provided from the project owner, and the way of calculating the result was discussed with the product owner. From the Admin side, this feature allows the Admin to Add/Edit/Delete Quizzes; questions and answers. It also allows the admin to view who took the quiz and their names if they are registered.

Two main php files that are required to run the quiz and display the quiz. These files are **quiz.php** and **quiz-start.php** which will contain codes that handles the quiz and calculation from the start of the quiz leading to the final answer after the quiz is done. Also, they display available quiz. However, there are database tables, which contains information of questions, answers for each quiz, quiz name, description, image name, link and quiz survey.

However, this artefact was the most difficult aspect of the whole project. It needed a lot of attentions for calculation, defining the type of the parent doing the quiz, redirecting to the correct materials and courses after the quiz is done. Thus, step by step, the team overcame the problem and finalized the quiz.

Acceptance test cases were done for this artefact as a proof that it work and that it meets the requirements of the client . It was done for all types of parents and a check to assure it works was done as well. This can be found in the document **acceptance test cases.pdf**

A guide for user usage is explained in the document **User guide customer.pdf.** A guide for admin usage is explained in the document **User guide admin.pdf.**

Online courses

This feature plays a significant role in the website, as it will move the project owner business to a new level by reaching her clients in online platform. This feature allows the admin to add Readings, Videos, Audio, and exercises for their clients. For this feature, admin can edit the online course, as well as granting/ removing access to/from specific clients respectively. For the user side, online courses could be seen once they are granted by the admin in the user profile page, if, however, the admin have not granted access, they will not be seen.

Files and database tables used are to manage the online courses for users and admin side. Files are listed below:

- Database tables: online_courses: it stores titles, reading text, video link, exercise text, audio link.
- view-courses.php: website page in the user profile page to display available courses.
- view-course-details.php: website page to display selected online course.
- online-course-edit.php: this function updates the online course if edited.
- online-course.php: this page shows the available online courses.
- access-edit.php: this file is used to grant access for clients.

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document **acceptance test cases.pdf.**

A guide on how to use this feature for admin is provided in document **User guide admin.pdf.**

A guide on how to use this feature for users is provided in document **User guide customer.pdf.**

Signup and login

The signup artefact allows website visitors and EnjoyParenting clients to sign up. So they can have access to extra features for registered users like online courses. When registered users and admin login they will be directed to their dashboard. Files database tables used for these artefacts:

- Login.php.
- Users table.

Acceptance test cases are provided to prove the functionality of these features and they are found in the document **acceptance test cases.pdf.**

A guide on how to use these features for admin is provided in document **User guide admin.pdf.**

A guide on how to use these features for users is provided in document **User guide customer.pdf.**

User profile

This feature/page allows the registered users to see their profiles after login and view courses. The course, however, will appear only after it is granted. Files used and database tables for this feature:

- profile.php
- users

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document acceptance test cases.pdf.

A guide on how to use this feature is provided in document User guide customer.pdf.

Admin profile

This feature allows the admin to edit their profile as well as in their profile, the admin can access other features like Blog / Personal Details / Access Manager / Quiz / website links and details / Events / Online Courses / Face to Face Course / Contact. Files used and database tables for this feature:

- index.php
- superadmin

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document acceptance test cases.pdf.

A guide on how to use this feature is provided in document User guide admin.pdf.

Blog

This artefact allows the admin to Add/Edit/Delete blogs. Admin can copy text with its format from a document or website and paste it to the add blog and it will keep the same format. Each blog must have a Title, Content, and img. For users, all blogs will be displayed in the blog page. Files used in this artefact:

- blog-add.php > Admin
- blog-edit.php > Admin
- blog.php > Admin
- blog-details.php > Client
- blogs.php > Client

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document acceptance test cases.pdf.

A guide on how to use this feature for admin is provided in document User guide admin.pdf.

A guide on how to use this feature for users is provided in document User guide customer.pdf.

Face to face course

This feature allows website visitors to view the available Face to Face Courses and clients can be redirected to external booking system (to be provided by the project owner later) to book the face to face courses. From the Admin side, the Admin can Add/Edit/Delete Face to face courses using the admin access. Files used and database tables for this artefact:

- superadmin/face-to-face-courses.php
- superadmin/face-to-face-course-add.php
- superadmin/face-to-face-course-edit.php
- Courses.php
- Courses

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document acceptance test cases.pdf.

A guide on how to use this feature for admin is provided in document User guide admin.pdf.

A guide on how to use this feature for users is provided in document User guide customer.pdf.

Events

This feature allows website visitors to view the available Events and clients can be redirected to external booking system (to be provided by the project owner later) to book Event. From the Admin side, the Admin can Add/Edit/Delete Events using the admin access. Files used and database tables in this artefact:

- superadmin/events.php
- superadmin/event-edit.php
- superadmin/event-add.php
- booking-event.php
- events

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document acceptance test cases.pdf.

A guide on how to use this feature for admin is provided in document User guide admin.pdf.

A guide on how to use this feature for users is provided in document User guide customer.pdf.

Search

This feature allows the website users/visitors/Admin to search the website using text. This function works by searching the titles of deferent content of the website including Blog, Events, Quiz. Files used in this artefact:

- search.php

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document acceptance test cases.pdf.

signup email confirmation

This feature allows the owner to keep the website database clean from fake emails. And its used to make sure that all users use an email address that they can access. Files used in this artefact:

- addons/vendor/phpmailer
- Login.php
- active-account.php
- Datatbase table: users

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document acceptance test cases.pdf.

Contact form

This function allows website visitors to contact the admin using a contact form in the contact us page. It also allows the admin to view who contacted them in the admin access and to delete the messages. Admin will receive an email with the message and user details. Files used in this artefact:

- Contact.php
- addons/vendor/phpmailer
- Database table/s: contact_u

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document acceptance test cases.pdf.

A guide on how to use this feature for admin is provided in document User guide admin.pdf.

A guide on how to use this feature for users is provided in document User guide customer.pdf.

View quiz results

This feature allows the admin to view the quiz results, users who complete the quiz, admin will be able to view their results and names if they were registered. Files used in this artefact:

- Database table/s: quiz_survey
- superadmin/quiz-survey-list.php

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document acceptance test cases.pdf.

A guide on how to use this feature for admin is provided in document User guide admin.pdf.

User update/edit/delete profile

This feature allows the user to update, edit, or delete their profiles. When user login, they have options such as mention previously, however, user who deletes the account will no longer have any of the registered user privileges. Files used in this artefact:

- Database table/s: users
- Profile.php

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document acceptance test cases.pdf.

A guide on how to use this feature for users is provided in document User guide customer.pdf.

Admin Edit/Delete Clients account

This feature allows the Admin to edit or delete clients profiles. When the admin wishes to edit or delete an account, they can do so in their dashboard. Files used in this artefact:

- Database table/s: users

- superadmin/access.php
- superadmin/access-edit.php

Admin can change social media "footer" links

This feature allows the Admin to edit or update the social media redirection links. Files used in this artefact:

- Database table/s: site_setting
- superadmin/extra-feature.php

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document acceptance test cases.pdf.

A guide on how to use this feature for admin is provided in document User guide admin.pdf.

Admin can change the website Logo

This feature allows the Admin to update or change the website logo in the nav bar. Files used in this artefact:

- Database table/s: site_setting
- superadmin/extra-feature.php

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document acceptance test cases.pdf.

A guide on how to use this feature for admin is provided in document User guide admin.pdf.

Admin can change the website Copyright

This feature allows the Admin to update or change the website Copy right at the bottom of each page using this feature. Files used in this artefact:

- Database table/s: site_setting
- superadmin/extra-feature.php

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document acceptance test cases.pdf.

A guide on how to use this feature for admin is provided in document User guide admin.pdf.

Add multiple quizzes

This feature allows the Admin to add multiple quizzes to the website so clients can take the quizzes. Files used in this artefact:

- Database table/s: quiz / question

- superadmin/quiz.php
- superadmin/quiz-add.php

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document acceptance test cases.pdf.

A guide on how to use this feature for admin is provided in document User guide admin.pdf.

Updated quiz algorithm

This artefact was made due to a request from the owner to change the way the quiz result calculation works. Files used in this artefact: quiz-start.php .

Added new parenting style to quiz + algorithm

This artefact was made due to a request from the owner to add a new parenting style(strict and assertive) to the quiz. That resulted in reforming the way the quiz would work and update to the database and create a new parenting style result page. Files used in this artefact:

- quiz-start.php
- answer_sa.php

Update contact us details

This artefact allows the admin to update the contact info in the contact us page. Files used in this artefact:

- Contact.php
- superadmin/extra-feature.php
- database table: site_setting

Users and Admin Profile pictures

This feature allows admin and users to upload profile pictures, at the moment only admin can view clients profile pictures in the admin access manager. Files used in this artefact:

- Assets
- Profile.php
- superadmin/index.php
- database table: users

Admin edit user privilege to online course

This feature allows the admin to select specific users to have the access to the online course materials. Other users that admin didn't grant access to them won't be able to view the online coursese. Files used in this artefact:

- superadmin/access-edit.php
- database table: users

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document acceptance test cases.pdf.

A guide on how to use this feature for admin is provided in document User guide admin.pdf.

View contact us from admin side

This artefact allows the admin to view the messages received from visitors who used the contact us form in the contact us page. Admin will be able to see these messages in the admin access under the "Contact" tab in the left nav bar.

Files used in this artefact:

- Superadmin/contact.php
- superadmin/contact-details.php
- Database table/s: contact_us

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document acceptance test cases.pdf.

A guide on how to use this feature for admin is provided in document User guide admin.pdf.

Admin Change password

This feature allows the admin to change the admin account password. Files used in this artefact:

- superadmin/index.php
- superadmin/change-password.php
- Database table/s: users

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document acceptance test cases.pdf.

A guide on how to use this feature for admin is provided in document User guide admin.pdf.

Forget password > Email reset verification

This feature allows users to reset their password using email verification. Files used in this artefact:

- Login.php
- forget-password.php
- databaste table: users

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document acceptance test cases.pdf.

Sign up/login password security

This feature keeps the passwords in the database encrypted and secured using md5 encryption method. When the client/Admin sign up or change their passwords, the passwords will be hashed in the database. And decrypted on login to make sure that the passwords match. Files used in this artefact:

- Login.php
- superadmin/change-password.php
- change-password.php
- forget-password.php
- databaste table: users

Contact us email notification

After client use the contact us form, the Admin will receive an email to notify that a message was received.

Files used in this artefact: Contact.php

Acceptance test cases are provided to prove the functionality of this feature and they are found in the document acceptance test cases.pdf.

Quality matrix

Below are some of the evidences that show the quality of the artefacts we done so far. This consists of a functional website tested on various technology devices that has the functionalities required by the owner and a burn- down chart that shows how well we have cope with each sprint.

Quiz

The main feature of the website was the quiz that leads to the parenting style. This quiz was done well and could be done by clients multiple times. The result then will lead the clients to their parenting style and other related contents. Refer to test cases ID 1-7 in the Acceptance Test Cases.pdf for testing that proves functional quiz.

Online course, registered user and admin

The online course is fully working for the users of website, both admin and registered users. It works perfectly for the admin, thus, they can manage online courses and grant/ remove access to/from clients. While the registered user can view the online courses only after they have been granted access. Refer to test cases in Acceptance Test Cases.pdf to see evidence of a working feature.

Access control

Accessing the website for different users depending on their rule. The website has been set to be used for three different users, admin, registered users and visitors. They each has their restrictions for accessing the website. The admin has full access to manage the website such as adding, editing and deleting blogs, managing quizzes and so on. While the registered user has access to their profile and their assigned courses (if applicable). Lastly the visitor has minimum rights of access such as browsing, registering if they want to and doing the quiz. See the test cases in the Acceptance Test Cases.pdf to see the user different access such as logging in as an admin will be directed to their dashboard to manage a specific feature.