ITCS 444: MOBILE APPLICATION DEVELOPMENT

COURSE PROJECT

First Semester 2023-2024

BASIC REQUIREMENTS:

You should form groups of **3 to 4 students** each.

PROJECT MAIN GOAL:

Use Ionic Mobile App Development tools and techniques to create a Mobile-application.

PROJECT Domain:

Exhibitions are a powerful marketing tool that can be a valuable way for a company to promote its products or services, build brand awareness, and connect with potential customers. Moreover, exhibitions may be used for entertainment, gala events or social events such as weddings and family special events. They provide ample floor area to create an opportunity to meet existing and potential customers. We are looking to design and implement an app to serve exhibitors and their customers in planning and following up their events. Example Home - Exhibition World Bahrain (ewbahrain.com)

Exhibitors require functions like long-term exhibition program planning, selection of exhibitions, staffing of exhibition projects, review and approval during exhibition development, and accountability. During the exhibition, your attendees can perform Registration, checking-in, badge printing, etc. The app will also offer custom branded event interface displaying all event content and functions.

You are to design and implement a mobile app to facilitate support for exhibition marketing through viewing and interacting with clients for hall reservation and event planning to enhance their event experience before, during and beyond.

PHASES
- Phase 1: Group assembly, initial structural design, initial interface (no marks).
- Phase 2: Final Demo Implementation/Demonstration/Reports/Working Soft Copy

Phases Deadlines

Phase	Deadline
Phase1	23 November Fill team Names on MS Teams (Upload *src* folder on Blackboard)
Phase 2	27 December (Project Presentation & upload *src* folder on Blackboard)

ITCS 444 Phase 1 Submission

1. Submit your team names

No.	Student ID	Student Name
1.		
2.		
3.		
4.		

2. Each Student in Group must mention their assigned task/role in the project work.
3. Overlap is allowed within 20% for each project.

Attach Screen shots here ↓

1	
2	
3	
4	

ITCS 444 Phase Two Submission

No.	Student ID	Student Name
1.		
2.		
3.		
4.		
Firebase Account (if needed)		
Username		
Password		

- Submit **src Folder** on Blackboard
- Submit a **word/pdf** file on Blackboard with:
    a. Required setup for app, if any. For example details of installed plugins.
    b. Submit your **firebase account** (username and password), if needed.
    c. **Screenshots** of project (not less than 10).
- **Demo presentation** of your project during the specified days.

PROJECT EVALUATION

OBJECTIVES	MARKS	Mark/Notes
Users Create/Read/Update/Delete Users (CRUD operations). User types are: • Admin • Client • Attendee/guest	1	
Authentication App should be used by multiple users (Authenticate users through firebase login)	1	
Hall View The app should display Halls for user Description/features about each hall. Exhibition World Bahrain has 10 halls plus grand hall. It also have other special rooms like meeting rooms, restaurant, majlis etc. Each Hall main information can be viewed: • Hall number/name • Capacity in squared meter • No. of booths fitting • Availability (one week or one month calendar) • Business Development team contact. Admin user must be able to Update/Read (CRUD) Hall information on App.	4	
Filter Hall View The client must be able to view list of halls. Client must be able **Search/filter for/View** halls by different parameters: • Available halls on specific days • Reserved halls on specific days • Capacity	2	
Hall Reservation • The client should be able to View available (not reserved) dates for the hall. • The client must be able to request **Hall reservation**. The client can select a hall and request it for reservation. • Hall reservation must first be **approved** by the admin. The admin should be able to transfer a Hall from Category 'Available' to the category of 'Reserved'.	5	

• The user is allowed to foresee hall **reservation for limited days (for example next 7 days OR 30 days)**. • Users should be able to communicate with admins through **messages** about hall reservation. Admin can also reply.		
History & Reports View History of reservations. You May draw a graph showing reservations over the past 7 days or 30 days for a specific hall.	2	
Custom Event Interface If the client reserved a hall for specific event, the client should be able to also create a **custom page** for the Event. **Custom Branded Event Interface** For each event, the app should provide the client with Event Page with custom functions and custom design like: • Event Agenda • Speakers • Exhibition/ Floor Plan • Registration (for attendees) • Attendees • Updates **The user may drag items to different places around the page.**	4	
Attendance Attendees/guests can view published Event Interface and register in the mentioned event.	1	
User Interface: design, consistency, content, ease of use, customization, settings and **Extra Features**		
Store all information on the cloud (firebase). Some information may be stored locally on device.		
Total Marks (20)	20	

* Required objectives for groups of three students.