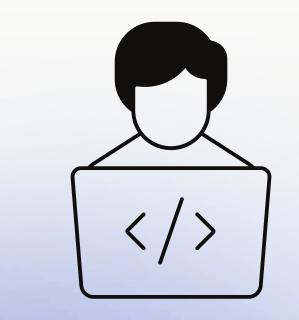
Learnsphere
Empowering Tech Learning
in Saudi Arabia

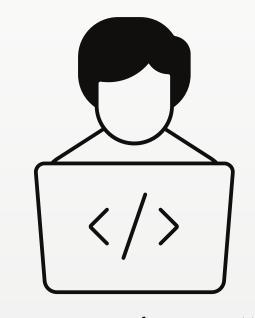


WELCOME

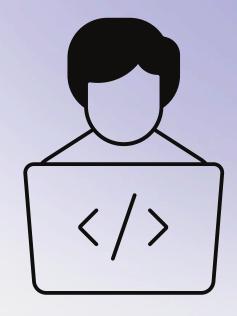
Team members:



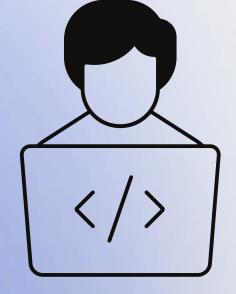
Atheer Al Otaibi 2210003305



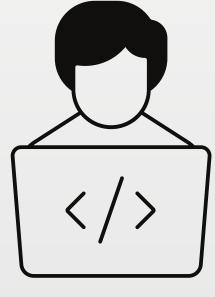
Jumana Khawaji 2200002705



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Intrroduction





Under Saudi Arabia's Vision 2030, there is a strong focus on enhancing digital skills and encouraging careers in technology through various computer science courses and training programs. While this development is promising, many beginners face challenges in choosing the right program, finding reliable resources, or staying motivated. To address these issues, our application offers certified content, personalized learning guidance, and flexible learning formats—both online and in-person. It also facilitates expert interaction, helping users gain both knowledge and confidence in navigating the tech industry.



Problem Statement

As Saudi Arabia embraces a tech-focused education system, many learners struggle to begin their computer science journey due to a lack of guidance in free learning materials. Our software addresses this issue by offering certified resources, structured foundational programs, and both online and in-person learning options. It also connects users with experts, helping them gain confidence and direction in their tech careers.



Objectives

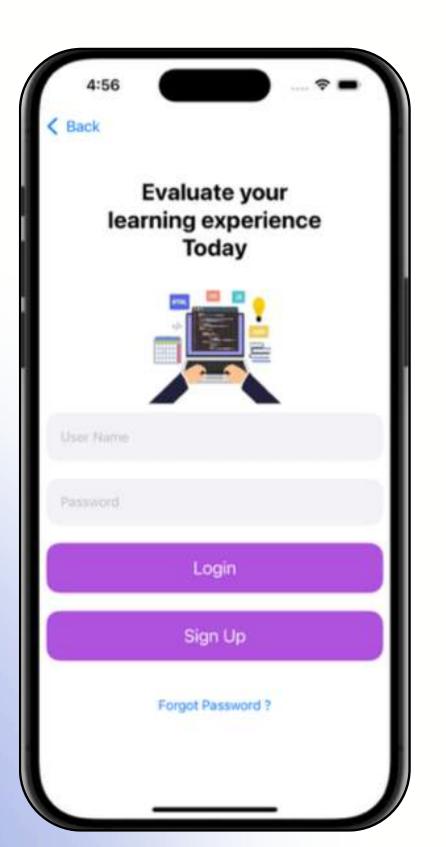
- Design a system that is simple and intuitive with a user-friendly interface.
- Users can create, update, and delete an account.
- It provides the access to questions and answer where the users can ask questions to certain professionals.
- Admin can add, delete and update courses.
- Provide comprehensive learning resources for different fields.
- Provide online resources and in-person with their location and date.

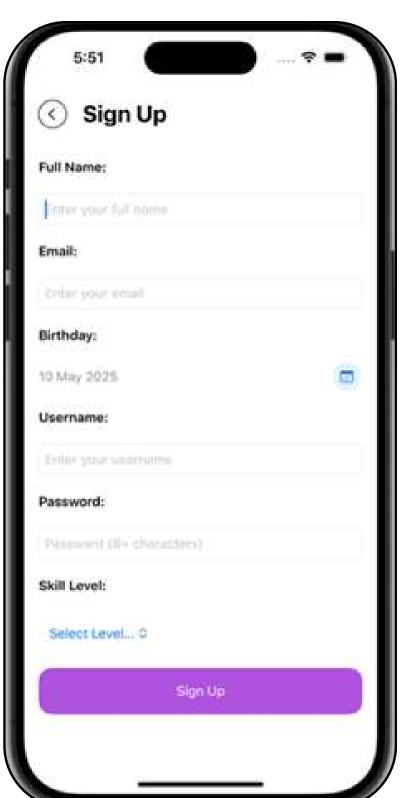
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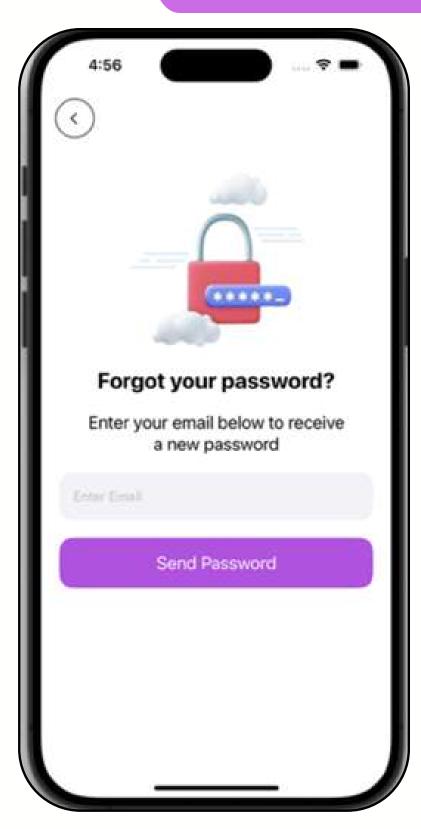
Features

User Authentication

- Login
- Sign Up
- Forgot Password







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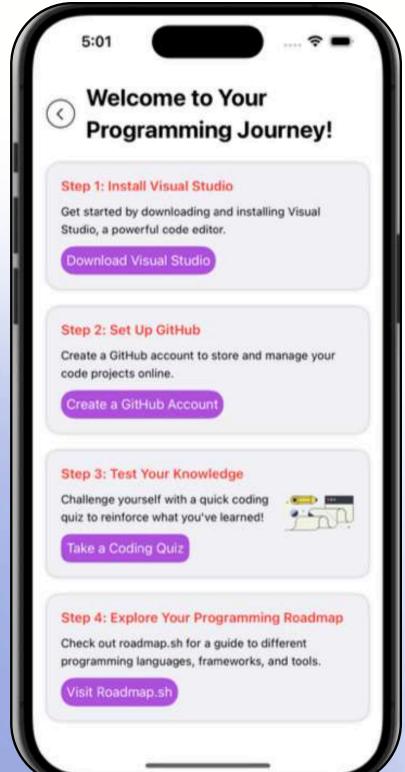
Features

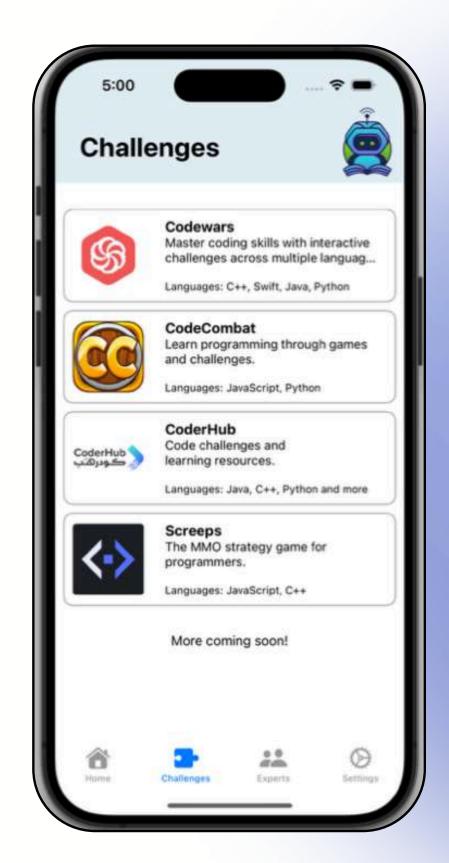
Main User Interfaces

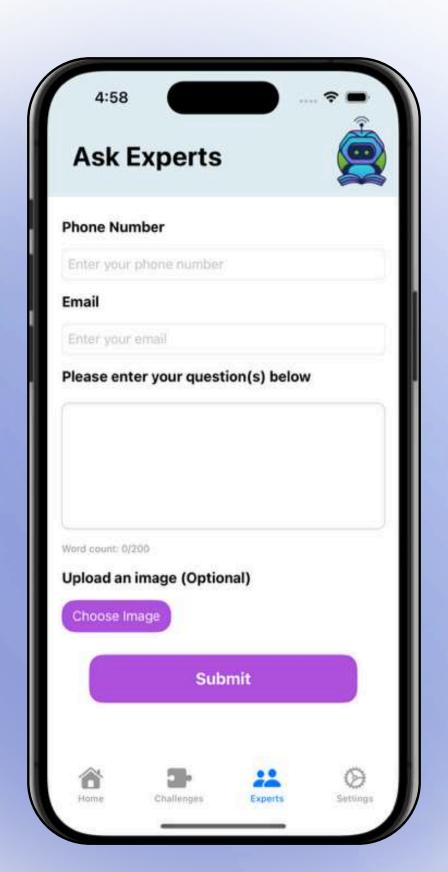
- User Homepage
- Courses
- Start Up
- Challenges
- Ask Experts
- Settings

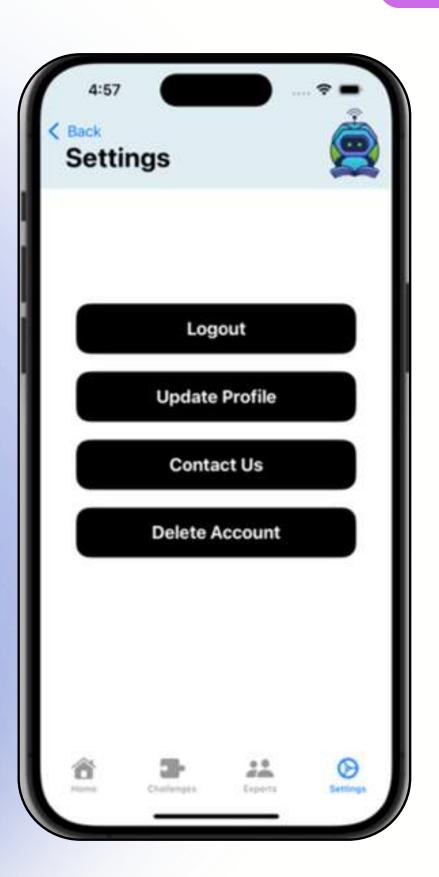


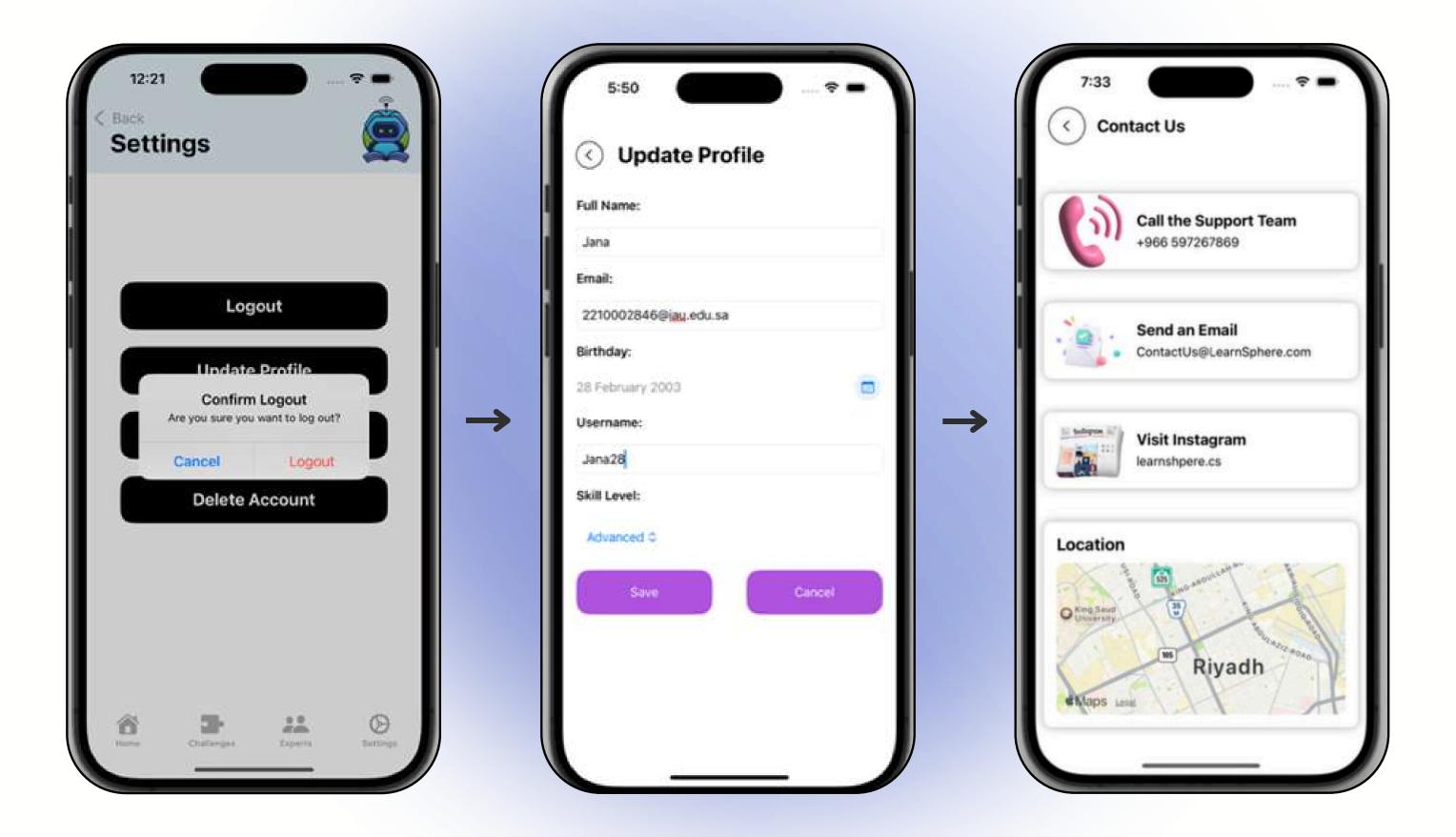










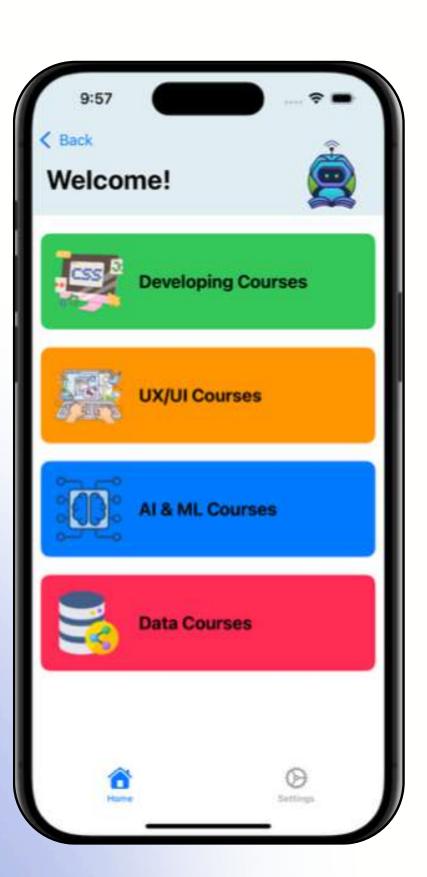


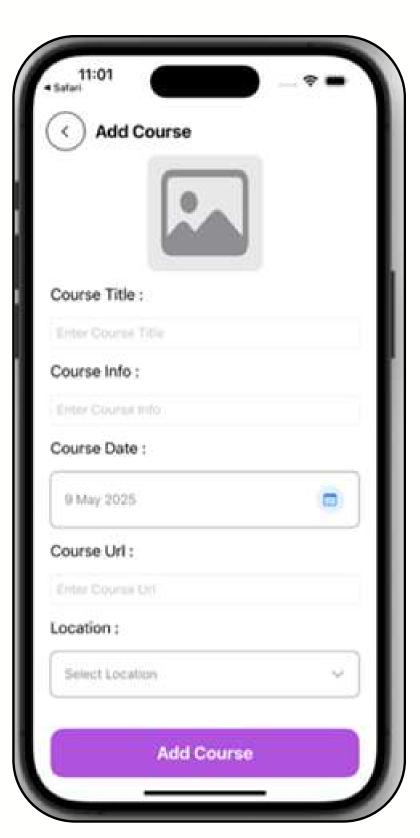
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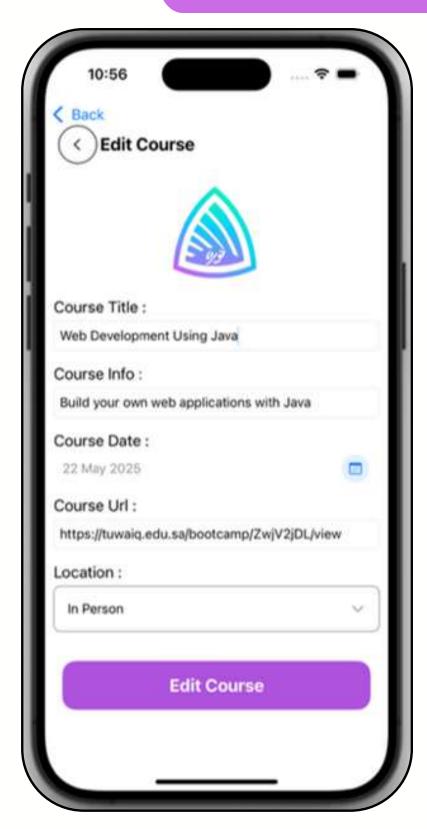
Features

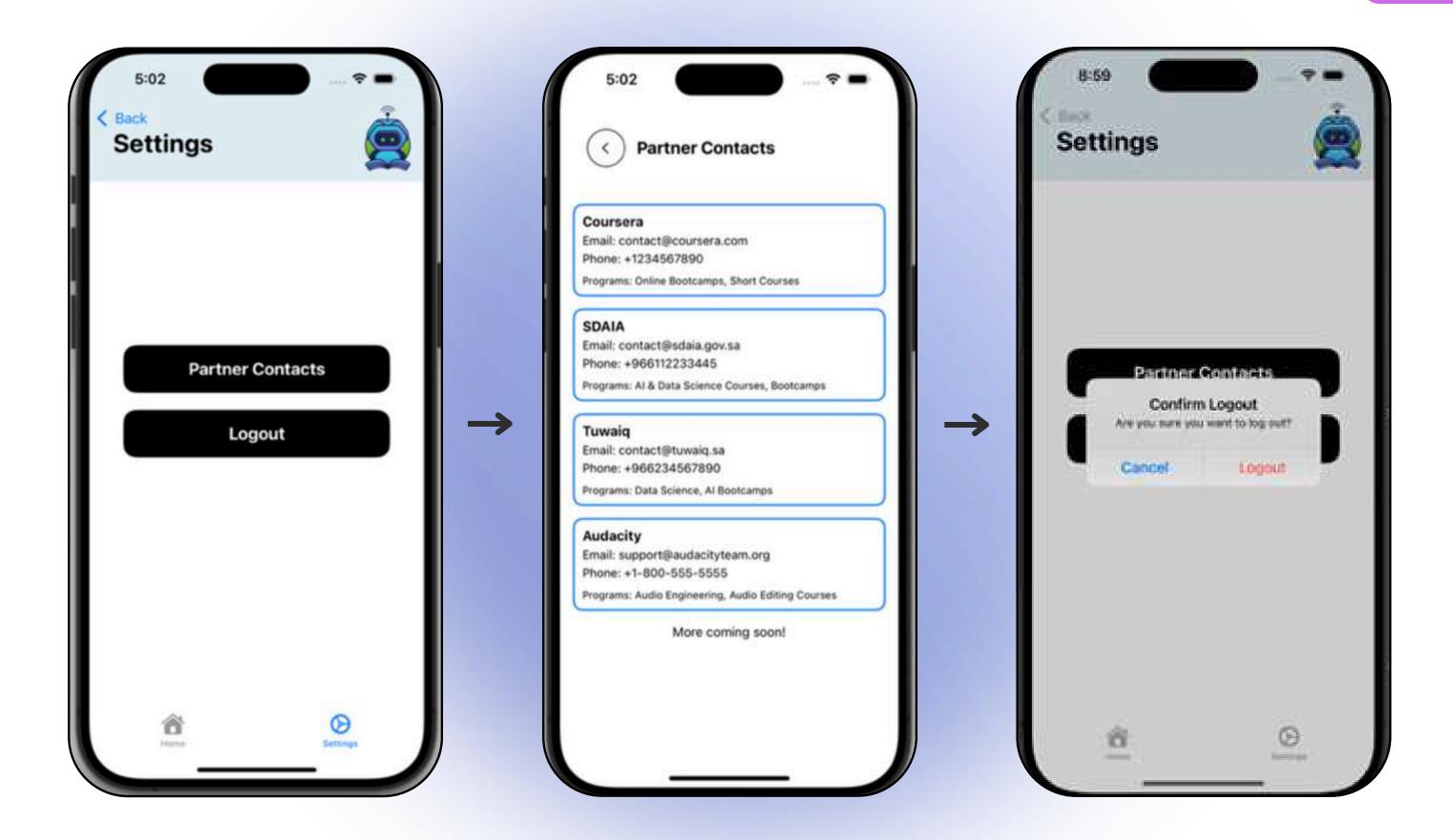
Main Admin Interfaces

- Admin Homepage
- Add course
- Update course
- Settings











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Java Demo



LEARNSPHERE

Swift Demo

JAVA



VS

SWIFT



Signup

Java

public boolean insertUSER(User item, String password) { boolean didSucceed = false; try { ContentValues initialValues = new ContentValues(); initialValues.put(Constants.COL_FullNAME, item.getFullName()); initialValues.put(Constants.COL_Email, item.getEmail()); initialValues.put(Constants.COL_Birthday, item.getBirthday()); initialValues.put(Constants.COL_UserName, item.getUserName()); initialValues.put(Constants.COL_PASSWORD, password); initialValues.put(Constants.COL_Skill, item.getSkill()); didSucceed = database.insert(Constants.TABLE_USER, null, initialValues) > 0; } catch (Exception e) { } return didSucceed; }

Login

Java

```
public boolean loginUser(String username, String password) {
    SQLiteDatabase db = this.getReadableDatabase();
    Cursor cursor = db.query(Constants.TABLE_USER,
    new String[]{Constants.COL_ID, Constants.COL_UserName, Constants.COL_PASSWORD},
    null, null, null, null, null, null);
    int userId = -1;
    if (cursor.moveToFirst()) {
       do {
            String _username = cursor.getString(1);
            String _password = cursor.getString(2);
           if (_username.equals(username) && _password.equals(password)) {
               userId = cursor.getInt(0);
               writeOnPreferenceId(userId);
               writeOnPreferenceUserName(username);
               cursor.close();
                break;
        } while (cursor.moveToNext());
    db.close();
    return userId > 0;
```

```
func login(username: String, password: String) -> Bool {
    do {
        let query = usersTable.filter(self.username == username && self.password == password)
        if let _ = try db?.pluck(query) {
            return true
        }
    } catch {
        print("Login error: \(error\)")
    }
    return false
}
```

Add course

Java

public boolean addCourse(Course item) { boolean addedSucceed = false; try { ContentValues initialValues = new ContentValues(); initialValues.put(Course.COL_Image, item.getImgCourse()); initialValues.put(Course.COL TypeCourse, item.getTypeCourse()); initialValues.put(Course.COL CourseTitle, item.getCourseTitle()); initialValues.put(Course.COL CourseInfo, item.getCourseInfo()); initialValues.put(Course.COL_CourseDate, item.getCourseDate()); initialValues.put(Course.COL CourseUrl, item.getCourseUrl()); initialValues.put(Course.COL Location, item.getLocation()); addedSucceed = database.insert(Course.TABLE NAME, null, initialValues) > 0; catch (Exception e) { return addedSucceed;

```
func insertCourse(title: String, info: String, url: String, location: String,
    date: Date, type: String, imagePath: String) {
    print("Attempting to insert course with title: \(title)")
    do {
        let formatter = DateFormatter()
        formatter.dateFormat = "yyyy-MM-dd"
        let dateString = formatter.string(from: date)
        try db?.run(coursesTable.insert(
            self.title <- title,
            self.info <- info,
            self.url <- url,
            self.location <- location,
            self.date <- dateString,</pre>
            self.type <- type,
            self.imagePath <- imagePath</pre>
        print("Course inserted successfully.")
    } catch {
        print("Insert failed: \(error\)")
```

Image picker

Java

private ImageView uploadedImageView; private ActivityResultLauncher<Intent> imagePickerLauncher = registerForActivityResult(new ActivityResultContracts.StartActivityForResult(), result -> { if (result.getResultCode() == Activity.RESULT_OK && result.getData() != null) { imageUri = result.getData().getData(); uploadedImageView.setImageURI(imageUri); uploadedImageView.setVisibility(View.VISIBLE);}}); private void openImageChooser() { Intent intent = new Intent(Intent.ACTION PICK); intent.setType("image/*"); imagePickerLauncher.launch(intent);}

```
import PhotosUI
struct ImagePicker: UIViewControllerRepresentable {
   @Binding var image: UIImage?
   func makeUIViewController(context: Context) -> PHPickerViewController {
       var config = PHPickerConfiguration()
       config.filter = .images
       config.selectionLimit = 1
       let picker = PHPickerViewController(configuration: config)
       picker.delegate = context.coordinator
       return picker
   func updateUIViewController( uiViewController: PHPickerViewController, context: Context) {
   func makeCoordinator() -> Coordinator {
       Coordinator(self)
   class Coordinator: NSObject, PHPickerViewControllerDelegate {
       let parent: ImagePicker
       init( parent: ImagePicker) {
           self.parent = parent}
       func picker( picker: PHPickerViewController, didFinishPicking results: [PHPickerResult]) {
           picker.dismiss(animated: true)
           guard let provider = results.first?.itemProvider,
              provider.canLoadObject(ofClass: UIImage.self) else {
           provider.loadObject(ofClass: UIImage.self) { image, error in
               if let uiImage = image as? UIImage {
                   DispatchQueue.main.async
                       self.parent.image = uiImage
```



Developing Courses

UX/UI Courses

AI & ML Courses

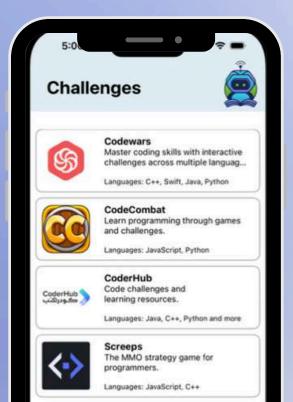
Data Courses

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Evaluate your rning experience

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Conclusion