

Farmers Heaven Project Viva Questions & Answers (Total: 100)

PART 1: Project Basics & Functionalities

1. **What is the title of your project?**

Farmers Heaven.

2. **What is the main purpose of Farmers Heaven?**

To provide a unified digital platform for farmers, buyers, laborers, and agricultural advisors.

3. **Which programming languages did you use?**

PHP, HTML, CSS, JavaScript.

4. **Which database is used in this project?**

MySQL.

5. **What are the core modules of the project?**

User Management, Product Listing, Order Management, Labour Hiring, Advisory Support.

6. **What are the different user roles in your system?**

Admin, Farmer, Buyer, Labourer.

7. **How does a farmer register on the portal?**

Through a registration form with details like name, phone, address, and type.

8. **How can a buyer place an order?**

By adding products to cart and completing a checkout form.

9. **How is an order number generated?**

Using PHP function `mt_rand(100000000, 999999999)`.

10. **Can users track their order history?**

Yes, through the 'My Orders' page.

11. **Is login required for all features?**

Yes, critical features are protected behind login sessions.

12. **What is the function of includes/config.php?**

To connect to the MySQL database and manage session settings.

13. **How are laborers hired through the portal?**

By filling out a hiring form with labor type, date, duration, and location.

14. **How are items added to cart?**

Through a product listing where users can select and add items.

15. **What are the payment methods supported?**

Cash on Delivery, Credit Card, Debit Card, E-Wallet.

16. **Where are product images stored?**

In the `admin/productimages/` folder.

17. **Can a user update their profile?**

Yes, from the profile section.

18. Does the system send any notifications?

Only alert messages are shown using JavaScript popups.

19. What validation is used for forms?

Basic HTML5 input validation.

20. Is there any session timeout feature?

No explicit timeout, but session checks exist.

PART 2: Technical Components

21. Explain the structure of the database.

Includes tables like `tblproducts`, `orders`, `tblorderaddresses`, `users`, `labourrequests`.

22. How are products managed?

Admins can add/update/delete products via admin panel.

23. How does the admin manage labor requests?

From the admin dashboard with approval/reject actions.

24. How is order placement handled in the code?

Using a multi-query to update `orders` and insert into `tblorderaddresses`.

25. How are images handled in the system?

Uploaded via forms and saved in a specific directory with reference stored in DB.

26. Which CSS framework is used?

Custom CSS without any modern framework.

27. Which JavaScript libraries are used?

jQuery, megamenu.js, easydropdown.js.

28. What is megamenu.js used for?

Dropdown navigation menus.

29. Is the design responsive?

Partially, but not fully mobile-friendly.

30. Is there any use of AJAX?

No AJAX is implemented.

31. How is data secured?

Session control and server-side validation, but no encryption.

32. How does logout work?

Session is destroyed on `logout.php`.

33. What kind of reports can admin view?

Total products, total users, order reports.

34. How is search implemented?

Basic search box for product listing.

35. How is form data processed?

Via POST method in PHP scripts.

36. Can orders be updated after placement?

No, once placed, orders are marked with IsOrderPlaced = 1.

37. What is the use of IsOrderPlaced column?

To identify unplaced vs. placed orders.

38. What is the cart mechanism?

*Order items are stored in **orders** table with null **IsOrderPlaced** until placed.*

39. How are totals calculated?

By summing price and shipping for each cart item.

40. Is there any use of object-oriented PHP?

No, the code is procedural.

PART 3: Advanced & Scenario-based Questions

41. How would you improve the UI of the system?

Use Bootstrap or Tailwind for responsive and modern design.

42. What are the potential bugs you found?

No CSRF protection, unvalidated file uploads.

43. How can you improve security?

Add input sanitization, prepared statements, and SSL.

44. How will you host this project?

Using XAMPP locally or upload to a LAMP server.

45. How can you extend this project?

Add mobile app, chat system, crop advisory AI.

46. What is mysqli_multi_query?

A function to execute multiple SQL queries in one call.

47. What happens if order placement fails midway?

Partial updates may happen, risk of inconsistency.

48. What would you do to fix such risks?

Use database transactions to ensure atomicity.

49. What will you do if two users get same order number?

Order numbers should be made unique using auto-increment IDs or UUIDs.

50. Is OTP or verification implemented?

No, but can be added for email/phone verification.

PART 4: Additional 50 Viva Questions

51. What are the main categories of users supported?

Admin, Farmer, Buyer, Labourer.

52. How is a buyer different from a farmer in your project?

Farmers can list products; buyers can only purchase.

53. Where is session management used?

To protect user pages and track user identity.

54. Is there a dashboard for users?

Yes, showing orders and account info.

55. Can farmers hire labor?

Yes, through the 'Labour Hiring' form.

56. What does the 'Labour Hiring' module include?

Labour type, duration, date, and address details.

57. Which table stores the labor requests?

*tblhirelabour**.*

58. How does the admin respond to labour hiring?

Admin approves or rejects requests.

59. What happens when a labourer is hired?

Status is updated in the database.

60. Is there any map integration for address?

No, only text-based address.

61. What happens if ZIP code is wrong?

There's no ZIP validation beyond maxlenlength.

62. Can you export reports in this system?

Not directly, would require enhancement.

63. Is there pagination in product listing?

No pagination is implemented.

64. How do you prevent SQL Injection?

Current code lacks prevention; use prepared statements.

65. How can performance be improved?

Optimize SQL queries and use AJAX for partial reloads.

66. Can a user cancel an order?

No, this feature is not present.

67. Which page shows product details?

*Individual product detail page under **product-details.php**.*

68. Is there admin login validation?

*Yes, in **admin/login.php**.*

69. What is logout.php used for?

To end sessions and redirect to login.

70. Can users post reviews?

No review/rating system is present.

71. How are queries written in PHP?

Using `mysqli_query` and `mysqli_multi_query`.

72. What is the table name for orders?

*orders**.*

73. What kind of join is used in cart query?

INNER JOIN between `orders` and `tblproducts`.

74. What is the naming convention for tables?

Mostly lowercase with `tbl` prefix.

75. Where is the CSS located?

In `css/style.css`, `css/megamenu.css`.

76. What does order.php do?

Displays cart and processes order placement.

77. Can a user delete an item from the cart?

Not directly; no delete button shown.

78. Is there a limit on number of products listed?

No, all products are shown.

79. Where is the user ID stored?

In `$_SESSION['nmsuid']`.

80. Is CAPTCHA implemented?

No.

81. How many tables are used in this project?

At least 8-10 including users, orders, products, labour, etc.

82. What are includes/ files for?

Reusable components like header, footer, DB config.

83. Where is data sanitization done?

Not done thoroughly; needs improvement.

84. Are SQL errors displayed?

No, error reporting is turned off.

85. Is this project scalable?

Yes, with code and DB optimization.

86. Does it support multiple languages?

No localization/internationalization present.

87. Is there any notification feature?

No email or SMS notifications implemented.

88. Can admin delete users?

Yes, from the admin panel.

89. What file contains the footer?

*includes/footer.php**.*

90. What file is used for login?

*login.php**.*

91. What is admin/index.php for?

Admin dashboard homepage.

92. Can a user upload profile picture?

No such feature is provided.

93. How can CSRF be prevented?

Using tokens in forms.

94. What is the primary key of orders?

id (auto-increment).**

95. What is the use of OrderNumber field?

To track specific orders.

96. How are form values submitted?

Using HTML forms with POST method.

97. Can same email be registered again?

Depends on database constraints; not clearly validated.

98. How is city stored in order address?

In `tblorderaddresses.city`.

99. What are foreign keys used in project?

UserId, ProductId, etc., linked across tables.

100. What do you plan to add in future versions?

Chat support, real-time tracking, farmer community features.