

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.
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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.
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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.
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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 maxlength.
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.