**A Project Report**

**on**

**“AgriCare -The Farming App”**



DIPLOMA IN

**INFORMATION TECHNOLOGY**

Submitted By

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Enrollment No.** | **Roll No.** | **Class** | **Name of the Student** |
| **1** | 21122603283 | **3622** | IF6I | Samrudhi Sanjay Kulkarni |
| 2 | 2112260253 | 3603 | IF6I | Srushti Vidyadhar Bagale |
| 3 | 2112260259 | 3607 | IF6I | Bhagyashri Somshekhar Borgi |
| 4 | 2112260303 | 3637 | IF6I | Sidra Abdul Saeed Shaikh |

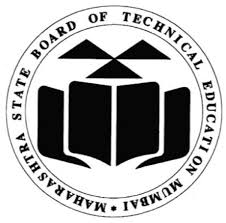


**DEPARTMENT OF INFORMATION TECHNOLOGY**

**SHRI SIDDHESHWAR WOMEN’S POLYTECHNIC,**

**SOLAPUR -413 002**

Academic Year -2023-24

**Maharashtra State Board of Technical Education, Mumbai**

**Shri Siddheshwar Women’s Polytechnic, Solapur**

**Accredited and Re-accredited by NBA, New Delhi**

**T. P. II, Plot No. 74, Bhawani Peth, Rupa Bhawani Mandir Road, Solapur.**

CERTIFICATE

**This is to certify that the Project report**

**On**

**“AgriCare -The Farming App”**

Has successfully completed in course by the Student of Second Semester Diploma in Information Technology for the Academic Year 2021-22 as prescribed in the “I-Scheme Curriculum” designed by MSBTE, Mumbai.

**Submitted By**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Enrollment No.** | **Roll No.** | **Class** | **Name of the Student** |
| **1** | 21122603283 | **3622** | IF6I | Samrudhi Sanjay Kulkarni |
| 2 | 2112260253 | 3603 | IF6I | Srushti Vidyadhar Beagle |
| 3 | 2112260259 | 3607 | IF6I | Bhagyashri Somshekhar Borgi |
| 4 | 2112260303 | 3637 | IF6I | Sidra Abdul Saeed Shaikh |

**Under the Guidance of**

Ms.Nimbalkar S.C

Lecturer, IT Dept.

**Ms. Nimbalkar S.C Dr.Neeta S. Alange Prof. Dharane G.R**

**Guide H. O. D. Principal**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  | | --- | | Shri SiddheshwarDevsthanTurst's | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Shri Siddheshwar Women's Polytechnic, Solapur.** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Information Technology Department** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Academic Year** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **2023-2024** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | |  | | | |  | |  | | | | | | | | | | | | | **Course Name** | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Program** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **Information Technology** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | |  | | | |  | |  | | | | | | | | | | | | | **Course Code** | | | | | | | | | | | | | | | | | | | | | | | | | | | **22024** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Semester** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **IF6I** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | |  | | | |  | |  | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Program Outcomes (POs)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **(What she will be able to do at the entry point of industry soon after the diploma programme)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **PO 1** | | | | | | | | | | **Basic knowledge** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Apply knowledge of basic mathematics, science and basic engineering to solve the broad-based Computer engineering problems. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **PO 2** | | | | | | | | | | **Discipline knowledge** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Apply Information Technology knowledge to solve broad-based Information Technology related problems. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **PO 3** | | | | | | | | | | **Experiments and practice** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Plan to perform experiments, practices and to use the results to solve Information Technology related problems. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **PO 4** | | | | | | | | | | **Engineering tools** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Apply appropriate Information Technology related techniques/ tools with an understanding of the limitations. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **PO**  **7** | | | | | | | | | | **Ethics** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Apply ethical principles for commitment to professional ethics, responsibilities and norms of the practice also in the field of Computer engineering. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **PO 8** | | | | | | | | | | **Individual and team work** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Function effectively as a leader and team member in diverse/ multidisciplinary teams. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **PO 9** | | | | | | | | | | **Communication** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | An ability to communicate effectively. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **PO**  **10** | | | | | | | | | | **Life-long learning** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Engage in independent and life-long learning activities in the context of technological changes in the Computer engineering field and allied industry. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Program Specific Outcomes (PSO's)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **What she will be able to do in the Information Technology Department specific industry soon after the diploma programme** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **PSO 1** | | | | | | | | | | | **Modern Information Technology** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Use latest technologies for operation and application of information. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **PSO 2** | | | | | | | | | | | **Information Technology Process** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Maintain the information processes using modern information and communication technologies. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Course Outcomes (CO's)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CO111.1 | | | | | | | | | | | | | | | | | | Prepare images using different color models. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CO111.2 | | | | | | | | | | | | | | | | | | Edit images using Graphical processing tools. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CO111.3 | | | | | | | | | | | | | | | | | | Build website with multimedia contents. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CO111.4 | | | | | | | | | | | | | | | | | | Develop 2D animation object. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CO111.5 | | | | | | | | | | | | | | | | | | Develop 3D animation object. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Mapping of CO's for Micro-Project** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Sr. No** | | | | | | | | | | | | | | | | | | | | **Micro project Title** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **Course Outcomes** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **CO111.1** | | | | | | | | | | | | | | | | | | **CO111. 2** | | | | | | | | | | | | | | | | | | | | | **CO111.3** | | | | | | | | | | | | | **CO111.4** | | | | | | | | | | | | | | **CO111.5** | | | | | | | | | | | | | | | | | | | | | |
| **1** | | | | | | | | | | | | | | | | | | | | Application of multimedia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |
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|  | | | | |  | | | | | | | |  | | | | | | | **Note :** Enter correlation levels 1,2,3 as defined below: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | |
|  | | | | |  | | | | | | | |  | | | | | | | 1. Slight (Low) 2: Moderate (Medium) 3: Substantial (High) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | |
|  | | | | |  | | | | | | | |  | | | | | | | If there is no correlation, put "-" | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | |
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|  | | | | |  | | | | | | | |  | | | | | | | **Mapping of CO's with PO's & PSO's for Micro-project** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | |  | | | | | | | | | | | |  | | | | | | | | |  | | | | | | | |  | | | | |  | | |  | |
|  | | | |  | | | | | | | |  | | | | | | | **Course Outcome** | | | | | | | | | | | | | | | | **Programme Outcomes (PO’S)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **PSO'S** | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | | | |  | | | | | | | | | | |  | | | | | |
|  |  | | | | | |  | | | | | | | | | | | |  | | | | | | | | | | | | | | | | **PO 1** | | | | | | | | | | **PO 2** | | | | | | | | | | **PO 3** | | | | | | | | | | | | **PO 4** | | | | | | | | | | | | | | | | **PO 5** | | | | | | | | | | | | | | | | | **PO 6** | | | | | | | | | | | | | **PO 7** | | | | | | | | | | | **PSO1** | | | | | | | | | | | **PSO2** | | | | | | | | | | | | |  | | | | | | | | |  | | | | | | | | | | |  | | | | |  | | | | | | |  | | | | | | |  | | | | | | |  | | | | | | |
|  |  | | | | | |  | | | | | | | | | | | | **CO111.1** | | | | | | | | | | | | | | | |  | | | | | | | | | |  | | | | | | | | | |  | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | |  | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |  | | | | | | | | | |
|  |  | | | | | |  | | | | | | | | | | | | **CO111.2** | | | | | | | | | | | | | | | |  | | | | | | | | | |  | | | | | | | | | |  | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | |  | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |  | | | | | | | | | |
|  |  | | | | | |  | | | | | | | | | | | | **CO111.3** | | | | | | | | | | | | | | | |  | | | | | | | | | |  | | | | | | | | | |  | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | |  | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |  | | | | | | | | | |
|  |  | | | | | |  | | | | | | | | | | | | **CO111.4** | | | | | | | | | | | | | | | |  | | | | | | | | | |  | | | | | | | | | |  | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | |  | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |  | | | | | | | | | |
|  |  | | | | | |  | | | | | | | | | | | | **CO111.5** | | | | | | | | | | | | | | | |  | | | | | | | | | |  | | | | | | | | | |  | | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | |  | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | |  | | | | | | | | | |
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|  | | | | | |  | | | | | | | | | |  | | | | | | | | | | | **Note :** Enter correlation levels 1,2,3 as defined below: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | | | |  | |  | | | | | |
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