E-GOVORNANCE SOFTWARE DETAILS

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1. Introduction

There is a proliferation of academic institutions of higher learning in the country. The diverse nature of these institutions poses tremendous challenges for the Promoters as well as UGC and academic regulators like AICTE to control them effectively from both academic and administrative points of view. In today's digital era it is possible to fulfill this need through an Academic ERP that is flexible, scalable, and provides a platform for progressive modular development consistent with the stage of development of a particular institution.

2. Proposed Solution - Academic ERP

2.1. About "Academic ERP"

Academic ERP is an important step towards e-governance, transparency and quality improvement in the domain of academic administration. Many of the reputed institutions in the country are using some form of 'Academic ERP' with full satisfaction.

The concept of Academic ERP, aims not only at achieving operational excellence in Institutions, but also make its stakeholders the beneficiaries of the system.

The Academic ERP takes care of the following stakeholders from the institution's point of view:

- i) Students/Parents
- ii) Teachers
- iii) Promoters
- iv) Regulatory Agencies (AICTE, NAAC, NBA)

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2.2. Overview of solution

This Academic ERP is module based. The different modules currently available are:

Pre-Admission	Feedback
Admission, Fees & Dues	Alumni
Routine Management	Teacher's Personal Management
Teaching & Learning	Leave Management
Student Attendance	Online Class Test with Attendance & Feedback
Student Mentoring	Certificate Management
Online Examination	Office e-Locker
Examination Evaluation with Course Output & Boolms Taxonomy	System Administrator
Analytics/Reports	Online Entrance Test (Like CET, PGET etc.)

Full Module with Description

SlNo	Module Name	Sub Module with Roll (user per permission individual)	rmission, admin can set the user
1	Pre-Admission Process	Online form fill up	Candidate
		Search form by student name/ form no /address/course/father's name wise etc.	Admission Councellor
		Generate money receipt after Provisional admission	Admission Councellor

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		Admission report		Manage	ment
		For each counsellor		Wanagement	
		Generate other repo	orts	Manage	ment
2	Admission Fees & Dues Process	Student's Enrollment	(1). At the final admiss student & respective guardian receive the username password SMS. (2) Autom student dabe upda Manual feeding required. (3) Fees tagged wis students automatical	will be the each	Admission Councellor/ Accounts Depertment
		Student I-Card Generation	semester w	ise	Admission Councellor/ Accounts Depertment
		Registration Card	Generate Registratio	on Card	Registrar Department
		Fee Collection	Online l (through etc)	Payment Cards	Student

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				Cash collection and generation of Money Receipt	Accounts Depertment
		Due		Due Reports student wise/batch wise/ degree wise	Accounts Department
		Fees Adjus	stment	Fees Alteration	Management/ According to user's permission
		Report		Dues Report searching students admission / batch / stream / area / quota etc wise report	Accounts Department/ According to user's permission
3	Routine	Routine Creation	3		Departmental Coordinators/HOD
		Reports	B. Der wis C. Day D. Fac E. Fac F. Ava G. Ow	ster routine partment/Section/Class e routine wise Routine ulty Load ulty routine ailability of faculty n routine will be blayed in Teacher's dent's login	Faculty/Student
4	Lesson Plan	B. System student C. Teacher D. HOD &	wise wh will aut can also Principa	nich will be displayed omatically track the update lesson plan aft I can also monitor it the	current semester of a er taking class

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5.	Attendance	 A. After taken class teacher can update att performance details through their login. B. Automatically SMS will be sent to abse guardian's mobile C. Generation of Attendance Register D. Any report like subject wise, teacher wise attendance will be generated with graphical rep E. Student can follow the attendance details from t F. Class bunker's report. G. Day wise overall attendance report can Principal/Director/HOD 	report etc of resentation
6	Mid Term Examination	 A. Subject wise marks bulk upload B. Generate Tabulation Sheet C. Generate marksheet with graphical analysis D. Marks can be sent to guardian's mob. no. through SMS E. Student/Guardian can also view it from their respective login 	Controller/ Registration Section Student's login
7.	University Examination System	A. Generate Admit card B. Moderation of Question based on CO & BL C. Track Backlog subjects and students D. Upload marks E. Generate Tabulation Sheet and Analysis F. Generate Marksheet and analysis G. Provisional certificate H. Degree Certificate	aminations
8.	Online Test	Question Entry Faculty Teacher can set Faculty examination date & time from their login IP Restriction Faculty Randomize question will be displayed from str SMS Marks to Guardian's Mobile	udent's login

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9	Online Student	set date & time for feedback	HOD/Coordinator/Principal
	Feedback	Display feedback of all faculty.	HOD/Coordinator/Principal
	System	Self feedback	Faculty
		Generate various kind of	HOD/Coordinator/Principal
		report & Graphical analysis	
		Feedback of students with less	attendance can be rejected.
10	Student Project	Student can upload final year (Faculty)	project and tag to project guide
11.	Organizational Calendar	Integrate google calendar.	
12	Teacher's / Staff Personal Management	Teacher/Staff can fill up their own profile from their own login Update qualification, publication, patent, no of workshops attended etc.	Faculty/ Staff
		Generate own resume Reports of different departments/ designation with no of publication/ patent etc.	HOD/ Coordinator/ Principal
13	Notice	Notice can be sent to all student and all faculty / staff members or selected faculty/ staff member/s.	HOD/Coordinator/Principal
		Notice can be sent via SMS and e-Mail Notice can be sent to alumni also	Faculty/ Staff (According to user's permission set by admin)
14	Certificate Management	A. Create Certificate Template B. Select student for generating certificate C. Issue and take print out	Admin Staff (According to user's permission)
15	Alumni	A. System can automatically co B. Alumni member can search t	heir friend with current position. rrent address, mobile no, email,

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16	Payroll	A. Pay Slip B. Salary Register (Automated calculation (Account's depertment (According to permission of user set by admin)
		with loan calculation) C. PF Report D. Head wise report E. Voucher payment F. Generate Reports
17	Leave Management	A. Apply for leave B. Leave approval C. Tracking of leaves D. Generate Report's / Unauthorised leave Unauthorised leave Faculty/ Staff HOD & Principal HOD / Principal (As per user permission set by Account's depertment)
18	Student Mentoring	A. Ability to track individual students B. Record students progress / feedback of mentor & mentee discussions C. Track students progress/ feedback of mentor & HOD & Principal
19	E-Locker	mentee discussions Upload scaned document View uploaded documens Any staff to whom view permission is given while uploading
20	Online Entrance Test	Entrance tests can be taken for the courses like CET, PGET etc., Where multiple subjects can be added in a single examination, Questions can be set within a range, IP can be restricted for the examinations as a result students can give the examination from various centers, Marks can be evaluated immediately after the examination ends, Answer script for any particular student can be displayed.
21	Admin	A. Create users, grant Admin permission to the user B. Create/Modify Course - set intake & duration

Specimen Reports attached in Appendix A.

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2.3. High Level workflow

Please refer to Appexdix C

2.4. Technology Stack

Front End: HTML, Javascript, JSP, JAVA

Back End: MySQL

2.5. Why "Academic ERP"?

When embarking on an ERP projects, higher education's risk-averse nature and close-knit community encourage CIOsto look toward the software and systems used by peer organizations that have successfully tackled similar challenges. Higher education executive teams do not naively believe that it was just the technology that made those organizations successful. However, they feel that, by adopting the technologies that others have been successful with, they are removing one variable from the success/failure equation. And our Academic ERP solution has been successfully rolled out and adopted in many of the institutes and currently has more than **5000+** users and as such **offers a proven and tested solution**.

Hosted on Amazon Cloud infrastructure, it would allow to get started with minimum investment and invest more as one scales up and it provides a best in class security features and can be accessed in any part of the globe at any time (24X7) with highest level security features.

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2.6. Our value offerings

Following are couple of engagement models available:

1. Full Implementation services:

As part of this model, we partner with the institutes to make the ERP functional to the institute. It would include:

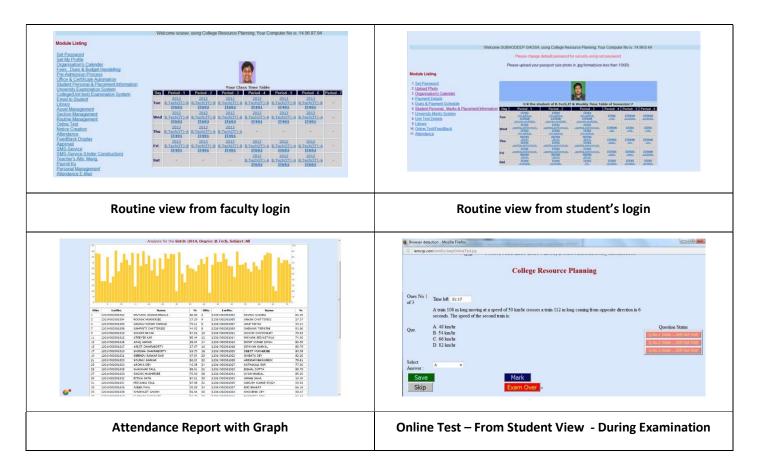
- a. Hosting, setup and configuration of Academic ERP
- b. Data conversion
- c. Training (both end user as well as technology know how transition)
- d. Support application customization
- e. Warranty support post go-live

2. Software License and consulting services:

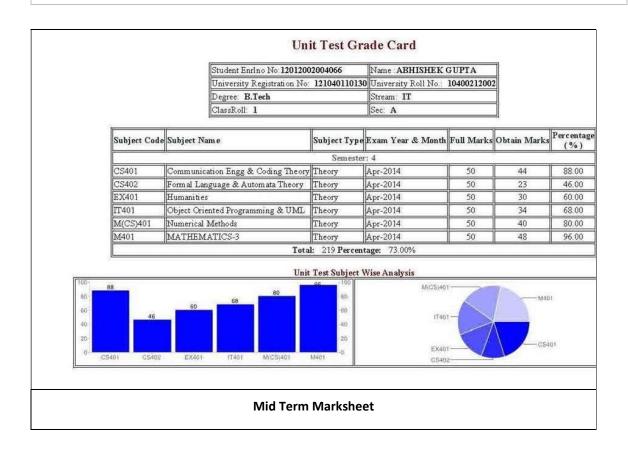
As part of this model, we will help to implement the Academic ERP to your organization.

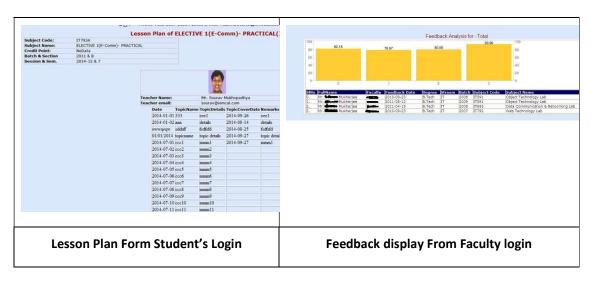
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3. Appendix A (Specimen Reports)



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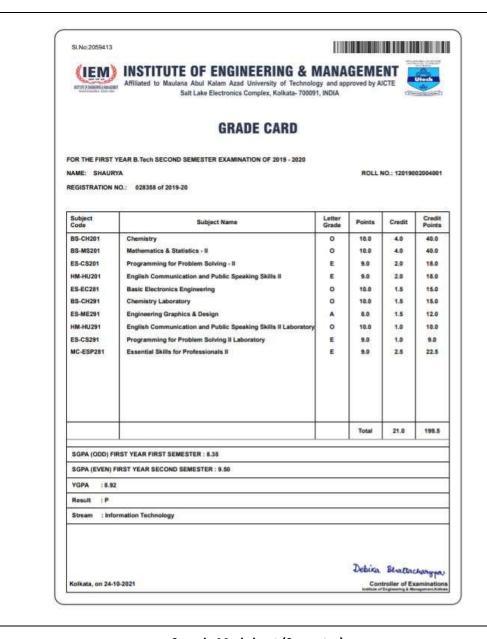




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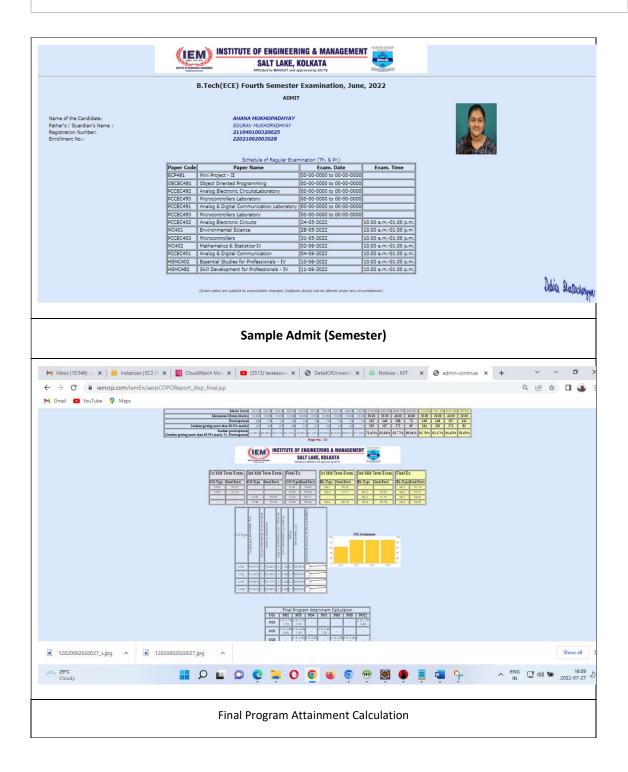


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Sample Marksheet (Semester)

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Degree Certificate

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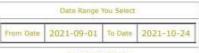
INSTITUTE OF ENGINEERING & MANAGEMENT



SALT LAKE, KULKATA

Log Out

My Attendance - (User: sourav, Name: Sourav Mukherjee, Employee Code:G1002)



Attendance Details

Date	In-Time	Out-Time	e Remarks
2021-09-01	0:00	0:00	OD-Leave Granted
2021-09-02	0:00	0:00	OD-Leave Granted
2021-09-03	0:00	0:00	OD-Leave Granted
2021-09-04	0:00	0:00	OD-Leave Granted
2021-09-06	8:47	17:20	
2021-09-07	8:47	17:16	1
2021-09-08	8:49	17:10	
2021-09-09	0:00	0:00	EL-Leave Granted
2021-09-09	0:00	0:00	OD-Leave Granted
2021-09-10	0:00	0:00	EL-Leave Granted
2021-09-11	0:00	0:00	Weekly Holiday
2021-09-13	8:56	17:07	The state of the s
2021-09-14	8:51	8:51	OD-Leave Granted
2021-09-15	0:00	0:00	OD-Leave Granted
2021-09-16	8:48	8:48	Late/Exit Earlier
2021-09-17	0:00	0:00	Biswakarma Puja: Holiday
2021-09-18	0:00	0:00	Weekly Holiday
2021-09-20	9:02	9:02	Late/Exit Earlier
2021-09-21	09:06	09:06	Late/Exit Earlier
2021-09-22	08:56	17:18	
2021-09-23	0:00	0:00	CL-Leave Granted
2021-09-24	08:45	17:08	
2021-09-25	0:00	0:00	Weekly Holiday
2021-09-27	08:40	17:48	1
2021-09-28	08:42	17:13	
2021-09-29	08:51	17:08	
2021-09-30	08:47	17:07	
2021-10-01	08:42	17:06	
2021-10-04	08:42	17:12	
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2021-10-07	8:52	17:08	

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Faculty Attendance using faculty's login

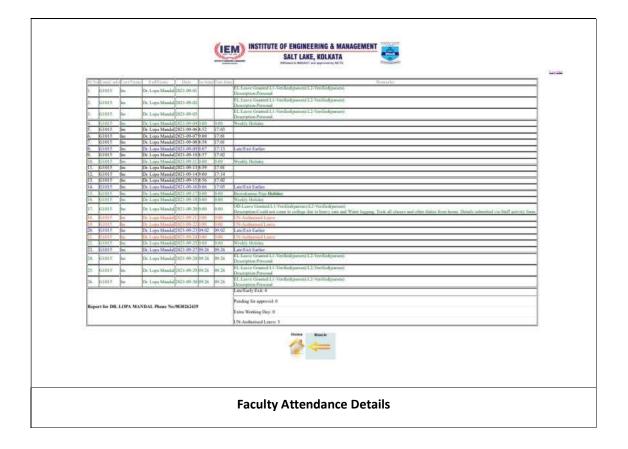
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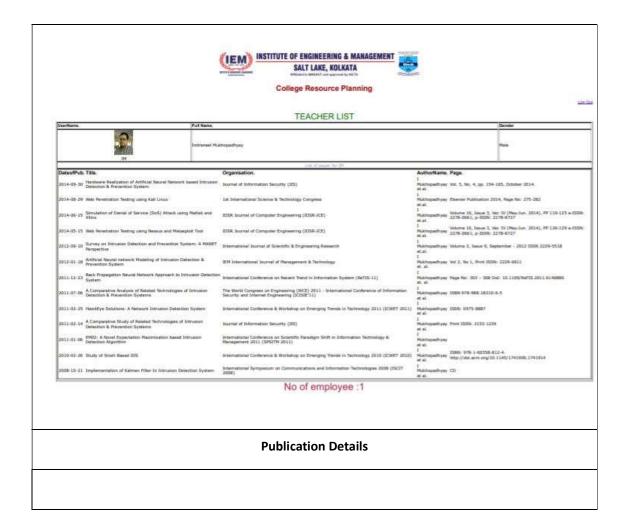
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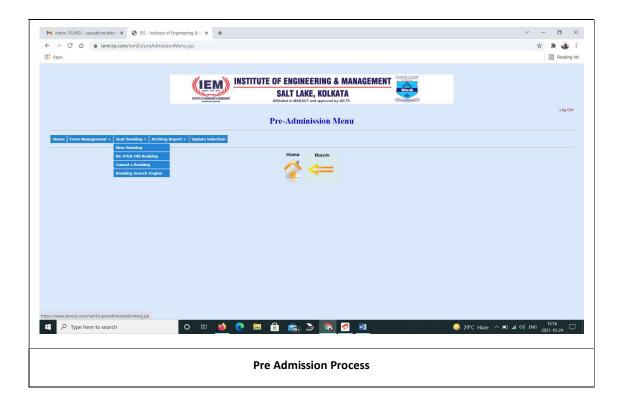
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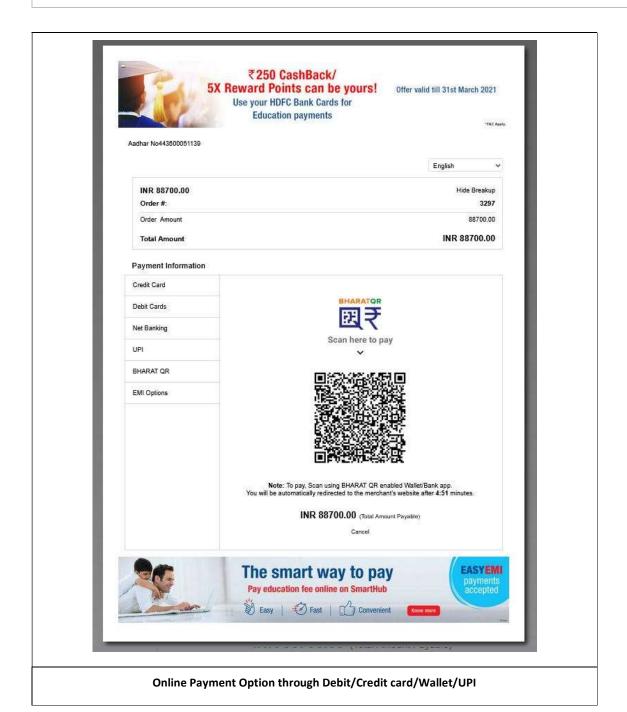
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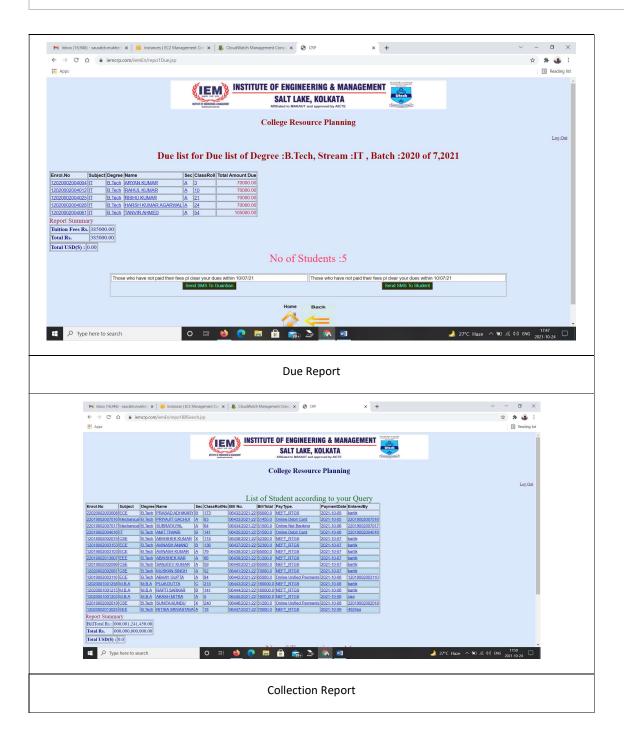
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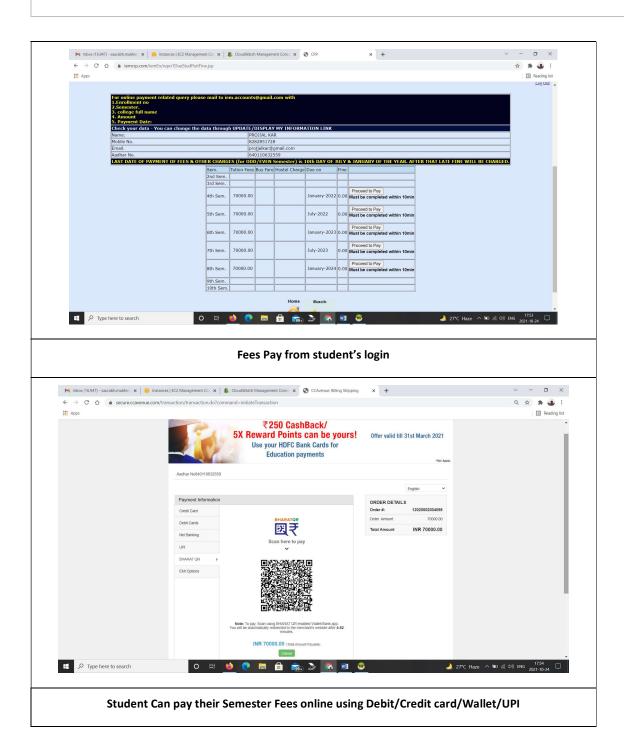
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