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Example Softw Template	vare FMEA		artsheet fo							
Software Name		FMEA ID	Revision	Date	Date Completed					
ABC Application		000123	1.0	10/01/20XX	00/00/20XX					
Software System / Module		Subsystems if oppica	bie		Approved By					
User Authentication, Data B	incryption, Session Management									
leam										
Brian Gorman (Software Engine	er), Devon Gomez (Quality Assurance Le	ad), Victoria Pearson	(Cybenecuity Sp	ecialist]						

So	oftware Failure Mode and Effects Analysis (FMEA)											imns contain a far Iter or delete.	mula to auto-	calculate;	Software FMEA Results						
ID	Module / Component	Function	Potential Failure Mode	Effects of Fallure	erity	Couses	90 u	Current Conits	sis	ug	RPN	Recommended Actions	Owner	Date Due	Action Results	Date Completed	Å	800	ug	RPN	
	Nome, ID number, etc.	Primary function	How could this fail to perform its intended function?	Consequential impact on other systems, depts, etc.	Server	All contributing factors	Occurrence	Prevention		8	Risk Priority Number	Steps required to reduce severity, accurrence, and detection	Organization, team, or individual responsible	Target date of completion	Actions taken	Actual date of completion	Severity	Occurrence	Detection	Rik Pliaity Number	
1	user Authentication	Verity user credenticits	incorrect password handing	Unautholaed access denied	8	Faulty poseword hash algorithm	5	Code raview, use of strong hostning	Unit tests for authentication functions	3	120	implement stronger hash algorithm	Bian Gaman	10/10/2000	Hash algorithm updated and teded	10/09/2000	6	3	2	36	
2	Data Encryption	Secure user diata	Decryption follure	Data loss or comption	9	incorrect encryption.key management	4	Enforce key management protocols	Automated key management system logs	3	108	Enhance key management process	Devon Gomez	10/15/20XX	Key management protocols updated	10/13/2000	7	3	2	42	
3	Session Management	Maintain user sessions	Section timeout too short	User logged out unexpectedly	7	Misconfigured section time-out settings	5	Default session Smeaut settings	QA testing for session duration	4	140	Adjust session Smeaut settings	Victoria Peason	10/20/2008	Timeout settings opfimized, QA validated	10/19/2000	6	3	2	36	
4	API Integration	Interface with external systems	API cali falure	Service unovaliability, data sync issues	8	Network latency, API version mismatch	6	Version control, monitoring for API updates	APt error logging and monitoring	4	192	Improve API version management	itian Goman	10/25/2008	API version control process improved, enors reduced	10/23/2000	6	3	2	36	
s	user interface (JI)	Display Information to users	inconect data display	Uter confusion, incorrect decisions	7	Frontend/backe nd data mismatch	4	Integration testing between trantend and	Ul/UK testing, automated UI validation	3	84	Enhance trontend- backend data validation	Devon Gomez	10/30/2000	Rontend-backend data validation implemented	10/29/2003	5	3	2	30	
4	Dofabase Management	Store and retrieve data	Coto retrieval talure	incomplete or incorrect data returned	9	Query optimization issues	5	Database query review process	Regular database performance audits	4	180	Opfiniae database queries	Victoria Peason	10/05/2008	Catabase queries opfiniaed, performance improved	11/56/2000	6	3	2	36	
7	Logging and Monitoring	Log system events and enars	Missing or inconnect log entities	inability to diagnose ksues	8	inadequate logging configuration	5	Standard logging guidelines	Regular review of log files	4	160	Update logging configuration	itian Gorman	11/10/2008	Logging configuration updated and vetified	11/10/200	6	3	2	36	
8	User Notifications	Notify users of Important events	Mised notifications	User unaware of critical actions	7	Notification service failures	4	Redundant notification systems	QA testing of notification system	3	84	implement redundant notification paths	Devon Gomez	11/15/2008	Redundant natification paths implemented and tested	11/14/2200	5	3	2	30	
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Software FMEA Template				
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Software System / Module	Subsystems if opplicable			Approved By
Team				

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	Nome, ID number, etc.	Plinary function		Consequential impact on other systems, departments, etc.	Server	Al contributing factors	Occurrence	Prevention Detection	Detection	Risk Pricelity Number	Steps required to reduce severity, occurrence, and detection	Organization, team, or individual responsible	Target date at completion	Actions taken	Actual date of completion	Serectity	Occurrence	Detection	Rick Priority Numbe		
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